



Prepared for:
UTC Aerospace Systems
Rockford, IL

Prepared by:
AECOM
Warrenville, IL
60480278
June 13, 2016

First Quarter 2016 GMZ Monitoring and System Performance Report

UTC Aerospace Systems Plants 1/2 Facility
Area 9/10 Remedial Action
Southeast Rockford Groundwater Contamination
Superfund Site
2421 11th Street
Rockford, IL 61104
ILD 981000417

US EPA RECORDS CENTER REGION 5



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June 13, 2016

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Division of Remediation Management
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Springfield, Illinois 62794-9276

Subject: First Quarter 2016 GMZ Monitoring and System Performance Report
UTC Aerospace Systems Plants 1/2 Facility
Area 9/10 Remedial Action
Southeast Rockford Groundwater Contamination Superfund Site
2421 11th Street
Rockford, Illinois 61104
ILD981000417
AECOM Project No. 60480278

Dear Messrs Drexler and Conrath:

This Quarterly Groundwater Management Zone (GMZ) Monitoring and System Performance Report has been prepared by AECOM Technical Services Inc. (AECOM) on behalf of UTC Aerospace Systems (UTAS, fka Hamilton Sundstrand Corporation or HSC). In accordance with the approved March 2007 Operation, Maintenance, and Monitoring Plan (OM&M Plan) and the United States Environmental Protection Agency (EPA) letter dated April 15, 2011 providing approval for combining project reporting documents, this report contains a summary of the following: 1) GMZ groundwater monitoring data; 2) the Phase 1 and Phase 2 air sparge/soil vapor extraction (AS/SVE) system performance data; 3) the Phase 1 and Phase 2 AS/SVE system process air analytical data; 4) GMZ wells that contain contaminants of concern (COCs) above Preliminary Remediation Goals (PRGs), and 5) Quarterly Progress Report for Second Quarter 2016.

As approved in the April 15, 2011 letter from Timothy Drexler, interpretation of collected groundwater quality and system performance data will be included in the Annual GMZ Monitoring and System Performance Report submitted in March of the subsequent year. This quarterly report provides the current environmental data including: tables and figures summarizing the results of first quarter 2016 GMZ monitoring and AS/SVE system performance data, supporting field data sheets and laboratory analytical reports, and the Quarterly Progress Report covering the period from March 1, 2016, to May 31, 2016.

The objective of AS/SVE system operation is to treat leachate-impacted groundwater at the HSC Plants 1/2 (Site) property. The implemented remedy was specifically targeted to address an area of the Site where COCs were originally present in leachate/groundwater at concentrations that were two or more orders of magnitude greater than their PRGs. Though the treatment area was not fully defined when the 2002 Record of Decision (ROD) for Operable Unit 3 (OU3) was issued, the entire Site was identified/defined in the ROD as a "source location" within the larger established "Source Area 9/10" (Area 9/10) based on data collected prior to the ROD¹. The ROD further required that the Site remedy include the establishment of a GMZ for this "source location" (the Site) whose volume was defined by the Site property boundaries and a vertical limit of 45 feet below ground surface. Two Site GMZs, GMZ 1 (Site property north of railroad tracks) and GMZ 2 (Site property south of railroad tracks), were approved by the Illinois EPA in 2008. Monitoring wells within the Site GMZs are routinely sampled, and the groundwater analytical results are compared to OU3 PRGs to evaluate the effectiveness of the remedy.

During the first quarter 2016 reporting period, the following six GMZ well locations along the Site boundary contained COCs at concentrations above PRGs:

| GMZ Monitoring Well ID | COC ^[1] Concentrations > PRG (Increase (+) or Decrease (-) from Previous Quarter) |
|------------------------|--|
| GMZ01 | PCE (+) |
| SMW04 | cis-1,2-DCE (-); PCE (+) |
| SMW08 | TCE(+), cis-1,2-DCE (-); PCE (+) |
| SMW19 | TCE (+) |
| PMW01 | PCE (+) |
| PMW02 | PCE (-) |

^[1] Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-1,2-DCE), Tetrachloroethene (PCE)

The above-noted decreases/increases in concentrations represent a relative change in COC concentrations (above the PRG) between the two most recent quarters of data. Such changes should not be viewed as an indication of a trend without further statistical evaluation.

While PRGs are used to assess on-going remedy effectiveness at the Site, the continued operation of the AS/SVE remedy will be dependent on the attainment of Alternate Cleanup Levels (ACLs) at the downgradient Site GMZ boundary. COC ACLs have not yet been established/approved for the Site, but the ACLs will represent the maximum allowable concentration at the Site boundary that will not result in a COC exceedance of a PRG at the Area 9/10 boundary downgradient of the Site.

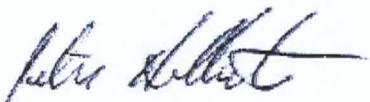
¹ See EPA Superfund Record of Decision Southeast Rockford Ground Water Contamination, 2002 EPA/ROD/R05-02/077
2002

Achieving ACLs at the downgradient Site boundary will demonstrate that the Site is protective of human or environmental receptors at the downgradient Area 9/10 boundary, and that continued active remediation is no longer warranted. The downgradient Area 9/10 boundary is located at Harrison Avenue to the south and 6th Street to the west.

The formulation of ACLs is consistent with the attainment of the OU3 ROD Remedial Action Objective (RAO) for groundwater specified in the ROD² and the objectives analysis/Remedial Action Process Flow Diagram (RAPFD) developed and approved for use by the EPA and Illinois EPA at the Site. The RAPFD, and the conditions for the performance of an objectives analysis and use of ACLs at the Site, are provided in the Statement of Work attached to the HSC facility Consent Decree³ and included in subsequent approved Remedial Design documents for the Site.

Please contact either of the undersigned with any questions you may have on the information provided.

Prepared by:



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Ms. Diane Bellantoni – United Technologies Corporation
Project File

² The OU3 ROD RAO for groundwater media is to: "Prevent the further migration of contamination from the source area that would result in degradation of site-wide groundwater or surface water to levels in excess of state or federal standards, or that pose a threat to human health or the environment."

³ See the Statement of Work in Appendix C of the Consent Decree between Hamilton Sundstrand Corporation and the United States Environmental Protection Agency (Civil Action Number 08 C 50129), Section II.D.2, *Implementation of Remedial Action and Attainment of Performance Standards* (pages 9 and 10).

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Tables

Table 1
Second Quarter 2015 to First Quarter 2016 Cumulative Groundwater Elevations
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

| Well ID | Top of Casing Elevation (ft) | Depth to Groundwater (ft BTOC) | Groundwater Elevaion (ft AMSL) |
|--------------------------------|------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | | | | | | | | | |
| | | | | | | | | | |
| MW07FGA | 727.49 | 29.47 | 698.02 | 29.33 | 698.16 | 29.24 | 698.25 | 28.20 | 699.29 |
| MW203 | 728.58 | 30.30 | 698.28 | 30.12 | 698.46 | 30.00 | 698.58 | 29.03 | 699.55 |
| SMW01 | 729.71 | 32.26 | 697.45 | 32.08 | 697.63 | 32.01 | 697.70 | 30.90 | 698.81 |
| SMW02 | 726.77 | 28.77 | 698.00 | 28.59 | 698.18 | 28.50 | 698.27 | 27.48 | 699.29 |
| SMW04 | 728.51 | 31.41 | 697.10 | 31.22 | 697.29 | 31.20 | 697.31 | 30.10 | 698.41 |
| SMW08 | 728.81 | 31.64 | 697.17 | 31.42 | 697.39 | 31.41 | 697.40 | 30.31 | 698.50 |
| SMW19 | 728.49 | 30.44 | 698.05 | 30.31 | 698.18 | 30.21 | 698.28 | 29.18 | 699.31 |
| SMW20 | 727.69 | 30.52 | 697.17 | 30.41 | 697.28 | 30.29 | 697.40 | 29.25 | 698.44 |
| SMW21 | 727.25 | 30.02 | 697.23 | 29.88 | 697.37 | 29.81 | 697.44 | 28.72 | 698.53 |
| GMZ01 | 731.41 | 34.19 | 697.22 | 34.02 | 697.39 | 33.97 | 697.44 | 32.86 | 698.55 |
| GMZ02 | 728.76 | 31.69 | 697.07 | 31.56 | 697.20 | 31.55 | 697.21 | 30.30 | 698.46 |
| GMZ03 | 728.22 | 31.08 | 697.14 | 30.95 | 697.27 | 30.94 | 697.28 | 29.84 | 698.38 |
| GMZ04 | 726.84 | 29.41 | 697.43 | 29.27 | 697.57 | 29.21 | 697.63 | 28.14 | 698.70 |
| BGW01 | 728.19 | 30.29 | 697.90 | 30.08 | 698.11 | 30.02 | 698.17 | 28.93 | 699.26 |
| BGW02 | 728.81 | 30.77 | 698.04 | 30.57 | 698.24 | 30.44 | 698.37 | 29.43 | 699.38 |
| BGW03 | 728.96 | 30.79 | 698.17 | 30.66 | 698.30 | 30.56 | 698.40 | 29.52 | 699.44 |
| RAMW01 | 728.91 | 31.75 | 697.16 | 31.60 | 697.31 | 31.54 | 697.37 | 30.33 | 698.58 |
| RAMW02 | 728.90 | 31.64 | 697.26 | 31.48 | 697.42 | 31.41 | 697.49 | 30.45 | 698.45 |
| RAMW03 | 728.71 | 31.45 | 697.26 | 31.29 | 697.42 | 31.24 | 697.47 | 30.16 | 698.55 |
| RAMW04 | 728.80 | 31.32 | 697.48 | 31.14 | 697.66 | 31.02 | 697.78 | 29.99 | 698.81 |
| RAMW05 | 727.65 | 30.20 | 697.45 | 30.02 | 697.63 | 29.96 | 697.69 | 28.89 | 698.76 |
| RAMW06 | 727.64 | 30.22 | 697.42 | 30.07 | 697.57 | 29.99 | 697.65 | 28.93 | 698.71 |
| RAMW07 | 732.20 | 34.68 | 697.52 | 34.53 | 697.67 | 34.45 | 697.75 | 33.39 | 698.81 |
| RAMW08 | 728.45 | 30.83 | 697.62 | 30.64 | 697.81 | 30.61 | 697.84 | 28.54 | 699.91 |
| PMW01 | 728.88 | 31.79 | 697.09 | 31.71 | 697.17 | 31.65 | 697.23 | 30.54 | 698.34 |
| PMW02 | 728.88 | 31.78 | 697.10 | 31.64 | 697.24 | 31.63 | 697.25 | 30.52 | 698.36 |
| Ave. GW Elev. (ft AMSL) | | 697.49 | | 697.65 | | 697.72 | | 698.83 | |

Notes:

NM = Not monitored

ft = feet

ft BTOC = feet below top of casing

ft AMSL = feet above mean sea level

All site well top of casing elevations re-surveyed on May 24, 2011.

RAMW04 riser was lowered due to ice damage that occurred during the 2013 winter. Well was resurveyed on July 1, 2013.

*

Table 2
Second Quarter 2015 to First Quarter 2016 Groundwater Analytical Results - GMZ Wells
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

| | | | | Trichloroethene (TCE) | Methylene Chloride (Dichloromethane) | 1,1-Dichloroethene | 1,1-Dichloroethane | 1,2-Dichloroethane | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Ethylbenzene | Tetrachloroethene (PCE) | Toluene | Vinyl chloride |
|--|-----------------------|-------------|-----------------|---------------------------------|---|----------------------|--------------------|---------------------------------|--------------------------------|-------------------------------|-----------------------|---------------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|
| Preliminary Remediation Goals (PRG) ^A | | | | 0.005 ^A _c | 0.005 ^A _c | 0.007 ^{b,c} | 0.7 ^A | 0.005 ^A _c | 0.07 ^A _c | 0.1 ^A _c | 0.2 ^{b,c} | 0.005 ^A _c | 0.7 ^A _c | 0.005 ^A _c | 1.0 ^A _c | 0.002 ^A _c |
| Well | Sample ID | Sample Date | Sample Type | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| GMZ01 | HS SER-GMZ01-051115 | 11-May-15 | | 0.0019 | 0.0020 U | 0.0010 U | 0.0088 | 0.0010 U | 0.0022 | 0.0010 U | 0.0063 | 0.0010 U | 0.0010 U | 0.0157 ^A | 0.0010 U | 0.0010 U |
| | HS SER-GMZ01-080415 | 4-Aug-15 | | 0.0018 | 0.0020 U | 0.0010 U | 0.0066 | 0.0010 U | 0.0037 | 0.0010 U | 0.0064 | 0.0010 U | 0.0010 U | 0.0183 ^A | 0.0010 U | 0.0010 U |
| | HS SER-GMZ01-120815 | 8-Dec-15 | | 0.0018 | 0.0020 U | 0.0010 U | 0.0113 | 0.0010 U | 0.0031 | 0.0010 U | 0.0087 | 0.0010 U | 0.0010 U | 0.0191 ^A | 0.0010 U | 0.0010 U |
| | HS SER-GMZ01-020816 | 8-Feb-16 | | 0.0013 | 0.0020 U | 0.0010 U | 0.0089 | 0.0010 U | 0.0021 | 0.0010 U | 0.0049 | 0.0010 U | 0.0010 U | 0.0206 ^A | 0.0010 U | 0.0010 U |
| GMZ02 | HS SER-GMZ02-051315 | 13-May-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0018 | 0.0010 U | 0.00042 J | 0.0010 U | 0.0041 | 0.0010 U | 0.0010 U | 0.00057 J | 0.0010 U | 0.0010 U |
| | HS SER-GMZ02-080515 | 5-Aug-15 | | 0.00040 J | 0.0020 U | 0.0010 U | 0.0016 | 0.0010 U | 0.00057 J | 0.0010 U | 0.0030 | 0.0010 U | 0.0010 U | 0.00043 J | 0.0010 U | 0.0010 U |
| | HS SER-GMZ02-120915 | 9-Dec-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0023 | 0.0010 U | 0.00059 J | 0.0010 U | 0.0065 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-GMZ02-020916 | 9-Feb-16 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0011 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0012 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| GMZ03 | HS SER-GMZ03-051315 | 13-May-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.00076 J | 0.0010 U | 0.00050 J | 0.0010 U | 0.00090 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-DUP01-051315 | 13-May-15 | Field Duplicate | 0.0010 U | 0.0020 U | 0.0010 U | 0.00078 J | 0.0010 U | 0.00055 J | 0.0010 U | 0.00089 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-GMZ03-080515 | 5-Aug-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.00028 J | 0.0010 U | 0.0010 U | 0.00035 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-DUP01-080515 | 5-Aug-15 | Field Duplicate | 0.0010 U | 0.0020 U | 0.0010 U | 0.00026 J | 0.0010 U | 0.0010 U | 0.00036 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-GMZ03-120915 | 9-Dec-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.00034 J | 0.0010 U | 0.0010 U | 0.00039 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-DUP01-120915 | 9-Dec-15 | Field Duplicate | 0.0010 U | 0.0020 U | 0.0010 U | 0.00035 J | 0.0010 U | 0.0010 U | 0.00039 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-GMZ03-021016 | 10-Feb-16 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00060 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-DUP01-021016 | 10-Feb-16 | Field Duplicate | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00055 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| GMZ04 | HS SER-GMZ04-051215 | 12-May-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0024 | 0.0010 U | 0.0030 | 0.0010 U | 0.0113 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-GMZ04-080515 | 5-Aug-15 | | 0.0026 | 0.0020 U | 0.00093 J | 0.0011 | 0.0010 U | 0.0035 | 0.0010 U | 0.0536 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-GMZ04-120915 | 9-Dec-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00050 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-GMZ04-020916 | 9-Feb-16 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0018 | 0.0010 U | 0.0035 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| MW07FGA | HS SER-MW07FGA-051215 | 12-May-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00048 J | 0.0010 U | 0.0010 U | 0.0011 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-MW07FGA-080515 | 5-Aug-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0011 | 0.0010 U | 0.0010 U | 0.0011 | 0.0010 U | 0.0010 U |
| | HS SER-MW07FGA-120815 | 8-Dec-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0016 | 0.0010 U | 0.0010 U | 0.00090 J | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-MW07FGA-020916 | 9-Feb-16 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0017 | 0.0010 U | 0.0010 U | 0.0011 | 0.0010 U | 0.0010 U | 0.0010 U |
| MW203 | HS SER-MW203-051115 | 11-May-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0038 | 0.0010 U | 0.0010 U |
| | HS SER-MW203-080415 | 4-Aug-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0037 | 0.0010 U | 0.0010 U |
| | HS SER-MW203-120815 | 8-Dec-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0040 | 0.0010 U | 0.0010 U |
| | HS SER-MW203-020816 | 8-Feb-16 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0049 | 0.0010 U | 0.0010 U |
| SMW01 | HS SER-SMW01-051215 | 12-May-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0013 | 0.0010 U | 0.0010 U | 0.0013 | 0.0010 U | 0.0010 U |
| | HS SER-SMW01-080415 | 4-Aug-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0013 | 0.0010 U | 0.0010 U | 0.0013 | 0.0010 U | 0.0010 U |
| | HS SER-SMW01-120815 | 8-Dec-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.001 | | | | | | | | | |

Table 2
Second Quarter 2015 to First Quarter 2016 Groundwater Analytical Results - GMZ Wells
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

| | | | | Trichloroethene (TCE) | Methylene Chloride (Dichloromethane) | 1,1-Dichloroethene | 1,1-Dichloroethane | 1,2-Dichloroethane | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Ethylbenzene | Tetrachloroethene (PCE) | Toluene | Vinyl chloride |
|-------|---------------------|-------------|-------------|--------------------------|---|--------------------|--------------------|--------------------|------------------------|--------------------------|-----------------------|-----------------------|--------------|----------------------------|----------|---------------------|
| Well | Sample ID | Sample Date | Sample Type | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| SMW08 | HS SER-SMW08-051115 | 11-May-15 | | 0.0021 | 0.0020 U | 0.0010 U | 0.0084 | 0.0010 U | 0.0040 | 0.0010 U | 0.0097 | 0.0010 U | 0.0010 U | 0.0199 ^A | 0.0010 U | 0.0010 U |
| | HS SER-SMW08-080415 | 4-Aug-15 | | 0.0021 | 0.0020 U | 0.0011 | 0.0165 | 0.0010 U | 0.140 ^A | 0.0013 | 0.0040 | 0.0010 U | 0.0010 U | 0.0243 ^A | 0.0010 U | 0.0010 U |
| | HS SER-SMW08-120715 | 7-Dec-15 | | 0.0018 | 0.0020 U | 0.0010 U | 0.0143 | 0.0010 U | 0.0878 ^A | 0.00073 J | 0.0073 | 0.0010 U | 0.0010 U | 0.0180 ^A | 0.0010 U | 0.0010 U |
| | HS SER-SMW08-020816 | 8-Feb-16 | | 0.0059 ^A | 0.0020 U | 0.00052 J | 0.0101 | 0.0010 U | 0.0713 ^A | 0.00071 J | 0.0174 | 0.0010 U | 0.0010 U | 0.0521 ^A | 0.0010 U | 0.0010 U |
| SMW19 | HS SER-SMW19-051215 | 12-May-15 | | 0.0145 ^A | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0011 | 0.0010 U | 0.00034 J | 0.0010 U | 0.0010 U | 0.0010 | 0.0010 U | 0.0010 U |
| | HS SER-SMW19-080515 | 5-Aug-15 | | 0.0106 ^A | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0007 J | 0.0010 U | 0.00034 J | 0.0010 U | 0.0010 U | 0.00086 J | 0.0010 U | 0.0010 U |
| | HS SER-SMW19-120915 | 9-Dec-15 | | 0.0116 ^A | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00048 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00075 J | 0.0010 U | 0.0010 U |
| | HS SER-SMW19-020916 | 9-Feb-16 | | 0.0165 ^A | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00063 J | 0.0010 U | 0.00029 J | 0.0010 U | 0.0010 U | 0.0011 | 0.0010 U | 0.0010 U |
| SMW20 | HS SER-SMW20-051215 | 12-May-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00043 J | 0.0010 U | 0.00027 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-SMW20-080515 | 5-Aug-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-SMW20-120915 | 9-Dec-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-SMW20-021016 | 10-Feb-16 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| SMW21 | HS SER-SMW21-051215 | 12-May-15 | | 0.00022 J | 0.0020 U | 0.00069 J | 0.00098 J | 0.0010 U | 0.0054 | 0.0010 U | 0.0315 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-SMW21-080515 | 5-Aug-15 | | 0.00084 J | 0.0020 U | 0.0010 U | 0.00025 J | 0.0010 U | 0.00099 J | 0.0010 U | 0.0100 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-SMW21-120915 | 9-Dec-15 | | 0.00028 J | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00068 J | 0.0010 U | 0.0052 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-SMW21-021016 | 10-Feb-16 | | 0.00029 J | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00096 J | 0.0010 U | 0.0105 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| PMW01 | HS SER-PMW01-051315 | 13-May-15 | | 0.0014 | 0.0020 U | 0.0010 | 0.0088 | 0.0010 U | 0.0016 | 0.0010 U | 0.0394 | 0.0010 U | 0.0010 U | 0.0178 ^A | 0.0010 U | 0.0010 U |
| | HS SER-PMW01-080615 | 6-Aug-15 | | 0.0013 | 0.0020 U | 0.0018 | 0.0086 | 0.0010 U | 0.0011 | 0.0010 U | 0.0547 | 0.0010 U | 0.0010 U | 0.0192 ^A | 0.0010 U | 0.0010 U |
| | HS SER-PMW01-120915 | 9-Dec-15 | | 0.00076 J | 0.0020 U | 0.0010 U | 0.0038 | 0.0010 U | 0.0010 U | 0.0124 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0115 ^A | 0.0010 U | 0.0010 U |
| | HS SER-PMW01-020916 | 9-Feb-16 | | 0.00088 J | 0.0020 U | 0.0010 U | 0.0021 | 0.0010 U | 0.00040 J | 0.0010 U | 0.0107 | 0.0010 U | 0.0010 U | 0.0122 ^A | 0.0010 U | 0.0010 U |
| PMW02 | HS SER-PMW02-051315 | 13-May-15 | | 0.0010 | 0.0020 U | 0.0010 U | 0.0054 | 0.0010 U | 0.0055 | 0.0010 U | 0.0036 | 0.0010 U | 0.0010 U | 0.0149 ^A | 0.0010 U | 0.0021 ^A |
| | HS SER-PMW02-080615 | 6-Aug-15 | | 0.0018 | 0.0020 U | 0.0010 U | 0.0069 | 0.0010 U | 0.0043 | 0.0010 U | 0.0042 | 0.0010 U | 0.0010 U | 0.0088 ^A | 0.0010 U | 0.0016 |
| | HS SER-PMW02-120915 | 9-Dec-15 | | 0.0014 | 0.0020 U | 0.00093 J | 0.0071 | 0.0010 U | 0.0093 | 0.0010 U | 0.0075 | 0.0010 U | 0.0010 U | 0.0142 ^A | 0.0010 U | 0.0010 U |
| | HS SER-PMW02-020916 | 9-Feb-16 | | 0.0013 | 0.0020 U | 0.0010 U | 0.0042 | 0.0010 U | 0.0025 | 0.0010 U | 0.0085 | 0.0010 U | 0.0010 U | 0.0126 ^A | 0.0010 U | 0.00093 J |

Notes:

PRG Preliminary Remediation Goals (PRGs) from the Record of Decision (ROD)

^A Class 1 - Groundwater Remediation Objectives

6.5^A Concentration exceeds the indicated standard.

15.2 Concentration was detected but did not exceed applicable standards.

0.03 U The analyte was not detected above the laboratory estimated quantitation limit.

0.50 U Laboratory estimated quantitation limit exceeded standard.

n/v No standard/guideline value.

- Parameter not analyzed / not available.

mg/L milligrams per liter

b,c Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.

Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill.Adm.Code 620.410 for Class I Groundwater or 35 Ill.Adm.Code 620.420 for Class II Groundwater.

c Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill.Adm.Code 620.410 for Class I Groundwater or 35 Ill.Adm.Code 620.420 for Class II Groundwater.

* LCS or LCSD exceeds the control limits

B The analyte was detected in the method, field and/or trip blank.

H Sample was prepped or analyzed beyond the specified holding time

J Indicates estimated value.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

Table 3
Second Quarter 2015 to First Quarter 2016 Groundwater Analytical Results - Performance Wells
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

| | | | | Trichloroethene (TCE) | Methylene Chloride (Dichloromethane) | 1,1-Dichloroethene | 1,1-Dichloroethane | 1,2-Dichloroethane | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Ethylbenzene | Tetrachloroethene (PCE) | Toluene | Vinyl chloride | |
|--|------------------------|-------------|-----------------|---------------------------------|---|-----------------------------------|--------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|---------------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|----------|
| Preliminary Remediation Goals (PRG) ^A | | | | 0.005 ^a _c | 0.005 ^a _c | 0.007 ^{b,c} ^a | 0.7 ^a | 0.005 ^a _c | 0.07 ^a _c | 0.1 ^a _c | 0.2 ^a _{b,c} | 0.005 ^a _c | 0.7 ^a _c | 0.005 ^a _c | 1.0 ^a _c | 0.002 ^a _c | |
| Well | Sample ID | Sample Date | Sample Type | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| RAMW01 | HS SER-RAMW01-051415 | 14-May-15 | | 0.0010 | 0.0020 U | 0.0010 U | 0.0030 | 0.0010 U | 0.0010 | 0.0010 U | 0.0029 | 0.0010 U | 0.0010 U | 0.0047 | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW01-080615 | 6-Aug-15 | | 0.0012 | 0.0020 U | 0.0010 U | 0.0037 | 0.0010 U | 0.00070 J | 0.0010 U | 0.0039 | 0.00022 J | 0.0010 U | 0.0052 ^a | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW01-120915 | 9-Dec-15 | | 0.0014 | 0.0020 U | 0.0010 U | 0.0025 | 0.0010 U | 0.00045 J | 0.0010 U | 0.0042 | 0.0010 U | 0.0010 U | 0.0098 ^a | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW01-020916 | 9-Feb-16 | | 0.0018 | 0.0020 U | 0.0010 U | 0.0027 | 0.0010 U | 0.00069 J | 0.0010 U | 0.0059 | 0.00027 J | 0.0010 U | 0.0094 ^a | 0.0010 U | 0.0010 U | |
| RAMW02 | HS SER-RAMW02-051415 | 14-May-15 | | 0.00028 J | 0.0020 U | 0.0010 U | 0.0072 | 0.0010 U | 0.0010 U | 0.0020 | 0.0010 U | 0.0010 U | 0.0020 | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW02-080615 | 6-Aug-15 | | 0.00041 J | 0.0020 U | 0.0010 U | 0.0029 | 0.0010 U | 0.0010 U | 0.0032 | 0.0010 U | 0.0010 U | 0.0025 | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW02-120915 | 9-Dec-15 | | 0.00049 J | 0.0020 U | 0.0010 U | 0.0035 | 0.0010 U | 0.0010 U | 0.0041 | 0.0010 U | 0.0010 U | 0.0048 | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW02-020916 | 9-Feb-16 | | 0.00079 J | 0.0020 U | 0.0010 U | 0.0045 | 0.0010 U | 0.00044 J | 0.0010 U | 0.0058 | 0.0010 U | 0.0010 U | 0.0091 ^a | 0.0010 U | 0.0010 U | |
| RAMW03 | HS SER-RAMW03-051415 | 14-May-15 | | 0.00043 J | 0.0020 U | 0.0010 U | 0.00034 J | 0.0010 U | 0.00085 J | 0.0010 U | 0.00044 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-DUP02-051415 | 14-May-15 | Field Duplicate | 0.00036 J | 0.0020 U | 0.0010 U | 0.00035 J | 0.0010 U | 0.0010 U | 0.00043 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW03-080615 | 6-Aug-15 | | 0.00043 J | 0.0020 U | 0.0010 U | 0.00039 J | 0.0010 U | 0.0010 U | 0.00043 J | 0.0010 U | 0.0010 U | 0.0011 | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-DUP02-080615 | 6-Aug-15 | Field Duplicate | 0.00044 J | 0.0020 U | 0.0010 U | 0.00041 J | 0.0010 U | 0.0010 U | 0.00041 J | 0.0010 U | 0.0010 U | 0.0011 | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW03-120815 | 8-Dec-15 | | 0.00028 J | 0.0020 U | 0.0010 U | 0.00043 J | 0.0010 U | 0.0010 U | 0.00049 J | 0.0010 U | 0.0010 U | 0.0012 | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-DUP02-120815 | 8-Dec-15 | Field Duplicate | 0.00010 U | 0.0020 U | 0.0010 U | 0.00046 J | 0.0010 U | 0.0010 U | 0.00061 J | 0.0010 U | 0.0010 U | 0.0011 | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW03-020916 | 9-Feb-16 | | 0.00033 J | 0.0020 U | 0.0010 U | 0.00047 J | 0.0010 U | 0.0010 U | 0.0011 | 0.0010 U | 0.0010 U | 0.0012 | 0.0010 U | 0.0010 U | 0.0010 U | |
| RAMW04 | HS SER-RAMW04-051415 | 14-May-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.00027 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0004 J | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW04-080715 | 7-Aug-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0039 J | 0.0010 U | 0.0010 U | 0.00043 J | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW04-120815 | 8-Dec-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.00053 J | 0.0010 U | 0.0010 U | 0.00055 J | 0.0010 U | 0.0010 U | 0.00072 J | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW04-020916 | 9-Feb-16 | | 0.00031 J | 0.0020 U | 0.0010 U | 0.00082 J | 0.0010 U | 0.00065 J | 0.0010 U | 0.00075 J | 0.0010 U | 0.00087 J | 0.0010 U | 0.0010 U | 0.0010 U | |
| RAMW05 | HS SER-RAMW05-051415 | 14-May-15 | | 0.0014 | 0.0020 U | 0.00095 J | 0.00046 J | 0.0010 U | 0.0012 | 0.0010 U | 0.0222 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-RAMW05-080715 | 7-Aug-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.00052 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW05-120815 | 8-Dec-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0016 | 0.0010 U | 0.0040 | 0.0010 U | 0.0265 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-RAMW05-020916 | 9-Feb-16 | | 0.00045 J | 0.0020 U | 0.0010 U | 0.0026 | 0.0010 U | 0.0055 | 0.0010 U | 0.0130 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| RAMW06 | HS SER-RAMW06-051315 | 13-May-15 | | 0.0019 | 0.0020 U | 0.0060 | 0.0032 | 0.0010 U | 0.0032 | 0.0010 U | 0.145 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-RAMW06-080715 | 7-Aug-15 | | 0.00061 J | 0.0020 U | 0.0056 | 0.0026 | 0.0010 U | 0.0068 | 0.0010 U | 0.0596 | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-RAMW06-120815 | 8-Dec-15 | | 0.00045 J | 0.0020 U | 0.00063 J | 0.0041 | 0.0010 U | 0.0064 | 0.0010 U | 0.0457 | * 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | * HS SER-RAMW06-020816 | 8-Feb-16 | | 0.0016 | 0.0020 U | 0.0023 | 0.0032 | 0.0010 U | 0.0175 | 0.0010 U | 0.0981 | * 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| RAMW07 | HS SER-RAMW07-051315 | 13-May-15 | | 0.0016 J | 0.010 U | 0.0516 ^a | 0.0584 | 0.0050 U | 0.0705 ^a | 0.0050 U | 1.040 ^a | 0.0050 U | 0.0041 J | 0.0032 J | 0.0050 U | 0.0050 U | 0.0050 U |
| | HS SER-RAMW07-080715 | 7-Aug-15 | | 0.0015 | 0.0020 U | 0.0069 | 0.0072 | 0.0010 U | 0.0016 | 0.0010 U | 0.0762 | 0.0010 U | 0.0010 U | 0.0015 | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-RAMW07-120815 | 8-Dec-15 | | 0.00083 J | 0.0020 U | 0.0042 | 0.0226 | 0.0010 U | 0.0307 | 0.0010 U | 0.1800</ | | | | | | |

Table 3
Second Quarter 2015 to First Quarter 2016 Groundwater Analytical Results - Performance Wells
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

| | | | | Trichloroethene (TCE) | Methylene Chloride (Dichloromethane) | 1,1-Dichloroethene | 1,1-Dichloroethane | 1,2-Dichloroethane | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,1,1-Trichloroethane | Ethylbenzene | Tetrachloroethene (PCE) | Toluene | Vinyl chloride | | |
|--|----------------------|-------------|-------------|--------------------------|---|----------------------|--------------------|----------------------|------------------------|--------------------------|-----------------------|----------------------|----------------------------|----------------------|--------------------|----------------------|----------|
| Preliminary Remediation Goals (PRG) ^A | | | | 0.005 ^{b,c} | 0.005 ^{b,c} | 0.007 ^{b,c} | 0.7 ^A | 0.005 ^{b,c} | 0.07 ^{b,c} | 0.1 ^{b,c} | 0.2 ^{b,c} | 0.005 ^{b,c} | 0.7 ^{b,c} | 0.005 ^{b,c} | 1.0 ^{b,c} | 0.002 ^{b,c} | |
| Well | Sample ID | Sample Date | Sample Type | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | |
| RAMW08 | HS SER-RAMW08-051315 | 13-May-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0009 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | |
| | HS SER-RAMW08-080615 | 6-Aug-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.00025 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-RAMW08-120715 | 7-Dec-15 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |
| | HS SER-RAMW08-020816 | 8-Feb-16 | | 0.0010 U | 0.0020 U | 0.0010 U | 0.00024 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.00026 J | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U | 0.0010 U |

Notes:

PRG Preliminary Remediation Goals (PRGs) from the Record of Decision (ROD)

^A Class 1 - Groundwater Remediation Objectives

6.5^A Concentration exceeds the indicated standard at specified well; however, compliance with the standard is only applicable to GMZ wells.

15.2 Concentration was detected but did not exceed applicable standards.

0.50 U Laboratory estimated quantitation limit exceeded standard.

0.03 U The analyte was not detected above the laboratory estimated quantitation limit.

mg/L milligrams per liter

n/v No standard/guideline value.

- Parameter not analyzed / not available.

b,c Oral Reference Dose and/or Reference Concentration under review by USEPA. Listed values subject to change.

Groundwater Quality Standard for this chemical pursuant to 35 Ill.Adm.Code 620.410 for

Class I Groundwater or 35 Ill.Adm.Code 620.420 for Class II Groundwater.

c Value listed is also the Groundwater Quality Standard for this chemical pursuant to 35 Ill.Adm.Code 620.410 for

Class I Groundwater or 35 Ill.Adm.Code 620.420 for Class II Groundwater.

B The analyte was detected in the method, field and/or trip blank.

J Indicates estimated value.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated

numerical value represents its approximate concentration.

Groundwater monitoring wells located within the influence of active treatment systems yield groundwater sample data that is potentially biased by the treatment activities. This potential bias should be considered during evaluation of this data.

Table 4.1
Cell 1 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

| ELL 1 SVE EFFLUENT | | Sample Type | SVE Run Time (hr) | Cell 1 Run Time (hr) | SVE Flow Rate (scfm) | 1,1,1-Trichloroethane | | 1,1,2-Trichloroethane | | 1,1-Dichloroethane | | 1,2-Dichloroethane | | 1,1-Dichloroethene | | cis-1,2-Dichloroethene | | trans-1,2-Dichloroethene | | Tetrachloroethene | | Trichloroethene | | Vinyl chloride | | Methylene Chloride | | |
|---|-------------|---------------------------|-------------------|---------------------------|----------------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|----------|----------|
| Date | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | | |
| 2/12/2009 | - | - | 159 | 53 | 140 | 13000 | 3.76E-02 | 140 U | 0.00E+00 | 45000 | 9.67E-02 | 140 U | 0.00E+00 | 910 | 1.91E-03 | 18000 | 3.79E-02 | 140 U | 0.00E+00 | 940 | 3.38E-03 | 260 | 7.41E-04 | 8100 | 1.10E-02 | 140 U | 0.00E+00 | |
| 2/22/2009 | - | - | 372 | 124 | 140 | 980 | 2.84E-03 | 26 U | 0.00E+00 | 11000 | 2.36E-02 | 26 U | 0.00E+00 | 130 | 2.74E-04 | 7300 | 1.54E-02 | 26 U | 0.00E+00 | 390 | 1.40E-03 | 41 | 1.17E-04 | 470 | 6.38E-04 | 26 U | 0.00E+00 | |
| 2/24/2010 | - | - | 1893 | 631 | 150 | 640 | 1.99E-03 | 6.0 U | 0.00E+00 | 1900 | 4.37E-03 | 6.0 U | 0.00E+00 | 28 | 6.31E-05 | 630 | 1.42E-03 | 6.0 U | 0.00E+00 | 150 | 5.78E-04 | 24 | 7.33E-05 | 33 | 4.80E-05 | 6.0 U | 0.00E+00 | |
| 3/15/2010 | - | - | 2345 | 782 | 140 | 1100 | 3.19E-03 | 8.4 U | 0.00E+00 | 2800 | 6.01E-03 | 8.4 U | 0.00E+00 | 37 | 7.79E-05 | 1300 | 2.74E-03 | 8.4 U | 0.00E+00 | 180 | 6.48E-04 | 30 | 8.56E-05 | 32 | 4.34E-05 | 8.4 U | 0.00E+00 | |
| 4/1/2010 | - | - | 2804 | 935 | 150 | 1400 | 4.34E-03 | 12 U | 0.00E+00 | 4100 | 9.44E-03 | 12 U | 0.00E+00 | 31 | 6.99E-05 | 1400 | 3.16E-03 | 12 U | 0.00E+00 | 790 | 3.05E-03 | 86 | 2.63E-04 | 91 | 1.32E-04 | 12 U | 0.00E+00 | |
| 5/13/2010 | - | - | 3495 | 1165 | 140 | 590 | 1.71E-03 | 7.0 U | 0.00E+00 | 2600 | 5.58E-03 | 7.0 U | 0.00E+00 | 13 | 2.74E-05 | 1100 | 2.31E-03 | 7.0 U | 0.00E+00 | 300 | 1.08E-03 | 32 | 9.13E-05 | 10 | 1.36E-05 | 7.0 U | 0.00E+00 | |
| 6/21/2010 | - | - | 4430 | 1477 | 108 | 710 | 1.59E-03 | 8.6 U | 0.00E+00 | 2600 | 4.31E-03 | 8.6 U | 0.00E+00 | 16 J | 2.60E-05 | 570 | 9.25E-04 | 8.6 U | 0.00E+00 | 290 | 8.05E-04 | 30 | 6.60E-05 | 86 | 8.6 U | 0.00E+00 | 8.6 UJU | 0.00E+00 |
| 7/21/2010 | - | - | 5058 | 1686 | 140 | 480 | 1.39E-03 | 7.0 U | 0.00E+00 | 2600 | 5.58E-03 | 7.0 U | 0.00E+00 | 10 | 2.10E-05 | 630 | 1.33E-03 | 7.0 U | 0.00E+00 | 710 | 2.56E-03 | 42 | 1.20E-04 | 70 | 7.0 U | 0.00E+00 | 8.2 U | 0.00E+00 |
| 8/23/2010 | - | - | 5784 | 1928 | 0 | 370 | 0.00E+00 | 8.2 U | 0.00E+00 | 2400 | 0.00E+00 | 8.2 U | 0.00E+00 | 540 | 0.00E+00 | 82 U | 0.00E+00 | 500 | 0.00E+00 | 48 | 0.00E+00 | 82 U | 0.00E+00 | 8.2 U | 0.00E+00 | | | |
| 9/23/2010 | - | - | 6523 | 2174 | 145 | 480 | 1.44E-03 | 7.2 U | 0.00E+00 | 2000 | 4.45E-03 | 7.2 U | 0.00E+00 | 250 | 5.45E-04 | 72 U | 0.00E+00 | 380 | 1.42E-03 | 31 | 9.16E-05 | 72 U | 0.00E+00 | 7.2 U | 0.00E+00 | | | |
| 10/22/2010 | - | - | 7219 | 2406 | 140 | 390 | 1.13E-03 | 5.0 U | 0.00E+00 | 1600 | 3.44E-03 | 5.0 U | 0.00E+00 | 160 | 3.37E-04 | 50 U | 0.00E+00 | 240 | 8.64E-04 | 21 | 5.99E-05 | 50 U | 0.00E+00 | 5.0 U | 0.00E+00 | | | |
| 10/22/2010 | Dup | - | 7219 | 2406 | 140 | 2600 | 7.53E-03 | 10 U | 0.00E+00 | 960 | 2.06E-03 | 10 U | 0.00E+00 | 120 | 2.53E-04 | 490 | 1.03E-03 | 10 U | 0.00E+00 | 140 | 5.04E-04 | 49 | 1.40E-04 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | |
| 11/15/2010 | - | - | 7794 | 2598 | 140 | 420 | 1.22E-03 | 4.3 U | 0.00E+00 | 1700 | 3.65E-03 | 4.3 U | 0.00E+00 | 43 U | 0.00E+00 | 140 | 2.95E-04 | 43 U | 0.00E+00 | 140 | 5.04E-04 | 16 | 4.56E-05 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | |
| 12/22/2010 | - | - | 8508 | 2777 | 150 | 600 | 1.86E-03 | 4.2 U | 0.00E+00 | 1600 | 3.68E-03 | 4.2 U | 0.00E+00 | 8.5 | 1.92E-05 | 510 | 1.15E-03 | 4.2 U | 0.00E+00 | 75 | 2.89E-04 | 11 | 3.36E-05 | 4.2 U | 0.00E+00 | 4.2 U | 0.00E+00 | |
| 1/24/2011 | - | - | 9302 | 2975 | 170 | 360 | 1.27E-03 | 5.2 U | 0.00E+00 | 1700 | 4.43E-03 | 5.2 U | 0.00E+00 | 52 U | 0.00E+00 | 140 | 3.58E-04 | 52 U | 0.00E+00 | 45 | 1.97E-04 | 8.6 | 2.98E-05 | 52 U | 0.00E+00 | 5.2 U | 0.00E+00 | |
| 2/25/2011 | - | - | 10071 | 3167 | 165 | 280 | 9.56E-04 | 4.0 U | 0.00E+00 | 1600 | 4.05E-03 | 4.0 U | 0.00E+00 | 4.5 | 1.12E-05 | 120 | 2.98E-04 | 4.0 U | 0.00E+00 | 34 | 1.44E-04 | 7.4 | 2.49E-05 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | |
| 3/18/2011 | - | - | 10573 | 3293 | 165 | 200 | 6.83E-04 | 6.3 U | 0.00E+00 | 1900 | 4.81E-03 | 6.3 U | 0.00E+00 | 130 | 3.22E-04 | 6.3 U | 0.00E+00 | 32 | 1.36E-04 | 6.4 | 2.15E-05 | 6.3 U | 0.00E+00 | 6.3 U | 0.00E+00 | | | |
| 4/15/2011 | - | - | 11241 | 3460 | 160 | 180 J,B | 5.96E-04 | 4.5 U | 0.00E+00 | 1700 | 4.17E-03 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 110 | 2.65E-04 | 4.5 U | 0.00E+00 | 43 | 1.77E-04 | 8.6 | 2.80E-05 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | |
| 5/19/2011 | - | - | 12061 | 3665 | 160 | 110 | 3.64E-04 | 4.3 U | 0.00E+00 | 1100 | 2.70E-03 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | 85 | 2.04E-04 | 4.3 U | 0.00E+00 | 55 | 2.26E-04 | 8 | 2.61E-05 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | |
| 6/16/2011 | - | - | 12722 | 3830 | 170 | 150 | 5.27E-04 | 2.3 U | 0.00E+00 | 730 | 1.90E-03 | 2.3 U | 0.00E+00 | 2.8 | 7.15E-06 | 63 | 1.61E-04 | 2.3 U | 0.00E+00 | 110 | 4.81E-04 | 12 | 4.16E-05 | 2.3 U | 0.00E+00 | 2.3 U | 0.00E+00 | |
| 7/15/2011 | - | - | 13417 | 4472 | 170 | 140 | 4.92E-04 | 1.2 U | 0.00E+00 | 390 | 1.02E-03 | 1.2 U | 0.00E+00 | 2.2 | 5.62E-06 | 47 | 1.20E-04 | 1.2 U | 0.00E+00 | 170 | 7.43E-04 | 14 | 4.85E-05 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | |
| 8/22/2011 | - | - | 14324 | 4775 | 170 | 150 | 5.27E-04 | 1.1 U | 0.00E+00 | 210 | 5.48E-04 | 1.1 U | 0.00E+00 | 2.1 | 5.37E-06 | 36 | 9.20E-05 | 1.1 U | 0.00E+00 | 180 | 7.87E-04 | 16 | 5.54E-05 | 1.1 U | 0.00E+00 | 2.3 UJB | 0.00E+00 | |
| 9/15/2011 | - | - | 14905 | 4968 | 170 | 130 | 4.57E-04 | 1.1 U | 0.00E+00 | 130 | 3.39E-04 | 1.1 U | 0.00E+00 | 1.5 | 3.83E-06 | 40 | 1.02E-04 | 1.1 U | 0.00E+00 | 180 | 7.87E-04 | 14 | 4.85E-05 | 1.5 | 2.47E-05 | 1.1 U | 0.00E+00 | |
| 10/14/2011 | - | - | 15598 | 5199 | 160 | 65 | 2.15E-04 | 0.74 U | 0.00E+00 | 100 | 2.45E-04 | 0.74 U | 0.00E+00 | 1.4 | 3.37E-06 | 43 | 1.03E-04 | 0.86 | 2.07E-06 | 130 | 5.35E-04 | 9.8 | 3.19E-05 | 3.5 | 5.43E-06 | 1.3 | 2.74E-06 | |
| 11/21/2011 | - | - | 16510 | 5503 | 170 | 49 J,B | 1.72E-04 | 0.74 U | 0.00E+00 | 68 | 0.74 U | 0.00E+00 | 2.9 | 7.41E-06 | 28 | 7.15E-05 | 1.1 | 2.81E-06 | 61 | 2.57E-05 | 7.3 | 2.53E-05 | 1 | 1.65E-06 | 7.4 U | 0.00E+00 | | |
| 12/14/2011 | - | - | 17010 | 5670 | 170 | 53 | 1.86E-04 | 0.78 U | 0.00E+00 | 45 | 1.17E-04 | 0.78 U | 0.00E+00 | 2.7 | 6.90E-06 | 18 | 4.60E-05 | 0.78 U | 0.00E+00 | 57 | 2.49E-04 | 5.8 | 2.01E-05 | 0.78 U | 0.00E+00 | 7.8 U | 0.00E+00 | |
| 1/19/2012 | - | - | 17923 | 5974 | 170 | 51 | 1.79E-04 | 0.79 U | 0.00E+00 | 41 | 1.07E-04 | 0.79 U | 0.00E+00 | 1 | 2.56E-06 | 12 | 3.07E-05 | 0.79 U | 0.00E+00 | 39 | 1.70E-04 | 5 | 1.73E-05 | 0.79 U | 0.00E+00 | 1.9 | 4.25E-06 | |
| 2/15/2012 | - | - | 18566 | 6189 | 170 | 46 | 1.62E-04 | 0.78 U | 0.00E+00 | 30 | 7.82E-05 | 0.78 U | 0.00E+00 | 9.4 | 2.40E-06 | 10 | 2.56E-05 | 0.78 U | 0.00E+00 | 37 | 1.62E-04 | 4.3 | 1.49E-05 | 0.89 | 1.47E-06 | 0.78 U | 0.00E+00 | |
| 3/15/2012 | - | - | 19262 | 6421 | 170 | 38 J,B | 1.34E-04 | 0.71 U | 0.00E+00 | 34 | 8.87E-05 | 0.71 U | 0.00E+00 | 0.8 | 2.04E-06 | 7.8 | 1.99E-05 | 0.71 U | 0.00E+00 | 32 | 1.40E-04 | 3.9 | 1.35E-05 | 0.71 U | 0.00E+00 | 0.71 U | 0.00E+00 | |
| 4/9/2012 | - | - | 20102 | 6701 | 160 | 55 | 1.82E-04 | 0.76 U | 0.00E+00 | 38 | 9.33E-05 | 0.76 U | 0.00E+00 | 0.76 U | 0.00E+00 | 7.4 | 1.78E-05 | 0.76 U | 0.00E+00 | 58 | 2.39E-04 | 5.7 | 1.86E-05 | 0.76 U | 0.00E+00 | 0.76 U | 0.00E+00 | |
| 5/16/2012 | - | - | 20748 | 6916 | 160 | 51 | 1.69E-04 | 0.76 U | 0.00E+00 | 36 | 8.84E-05 | 0.76 U | 0.00E+00 | 7.1 | 1.71E-05 | 0.76 U | 0.00E+00 | 77 | 3.17E-04 | 6.1 | 1.99E-05 | 0.76 U | 0.00E+00 | 0.76 U | 0.00E+00 | | | |
| June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8/4/2012 | - | - | 21282 | 7094 | 160 | 120 | 3.97E-04 | 1.3 U | 0.00E+00 | 51 | 1.25E-04 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 8.3 | 2.00E-05 | 1.3 U | 0.00E+00 | 350 | 1.44E-03 | 15 | 4.89E-05 | 1.3 U | 0.00E+00 | 13 U | 0.00E+00 | |
| 9/17/2012 | - | - | 21952 | 7317 | 160 | 190 | 6.29E-04 | 1.1 U | 0.00E+00 | 77 | 1.89E-04 | 1.1 U | 0.00E+00 | 2 | 4.81E-06 | 9.8 | 2.36E-05 | 1.1 U | 0.00E+00 | 270 | 1.11E-03 | 25 | 8.15E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | |
| September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/15/2012 | - | - | 21959 | 7320 | 160 | 160 | 5.29E-04 | 1.0 U | 0.00E+00 | 56 | 1.37E-04 | 1.0 U | 0.00E+00 | 7.2 | 1.73E-05 | 9.1 | 2.19E-05 | 1.0 U | 0.00E+00 | 220 | 9.05E-04 | 18 | 5.87E-05 | 1.0 U | 0.00E+00 | 10 U | 0.00E+00 | |
| 12/14/2012 | - | - | 22554 | 7518 | 170 | 140 | 4.92E-04 | 1.2 U</ | | | | | | | | | | | | | | | | | | | | |

Notes:

Mass removal rate = (flow rate in scfm)(concentration in ppmv)(60)(MW) / (387*1000000)

"U" indicates non-detection at the specified reporting limit; for ND compounds, zero is used in mass removal calculations.

MW molecular weight (values from the U.S. National Library of Medicine)

SCFM standard cubic feet per minute
— Indicates estimated value

J Indicates estimated value.
B The analyte was detected in the method, field and/or trip blank.

When a duplicate sample was collected, the original sample results are used in the mass

Table 4.1
Cell 1 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

| CELL 1 SVE EFFLUENT | | Date | Sample Type | SVE Run Time (hr) | Cell 1 Run Time (hr) | SVE Flow Rate (scfm) | Carbon Tetrachloride | | Chloroform | | Chloroethane | | Benzene | | Toluene | | Ethylbenzene | | m&p-Xylenes | | o-Xylenes | | Acetone | | Methyl Ethyl Ketone (MEK) | | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) |
|---------------------|---------------------------|-------------|---------------------------|-------------------|---------------------------|----------------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|----------|---------------------------|----------|---------------------------|------------------------------|
| Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | | | | | |
| 12/10/2009 | 159 | 53 | | 140 | 140 | 0.00E+00 | 140 U | 0.00E+00 | 140 U | 0.00E+00 | 17000 | 2.38E-02 | 140 U | 0.00E+00 | 560 | 1.12E-03 | 250 | 5.76E-04 | 1800 | 4.15E-03 | 470 | 1.08E-03 | 3800 | 4.79E-03 | 140 U | 0.00E+00 | 2.25E-01 | 11.91 |
| 12/22/2009 | 372 | 124 | | 140 | 26 | U | 0.00E+00 | 26 U | 0.00E+00 | 1700 | 2.38E-03 | 26 U | 0.00E+00 | 32 | 6.40E-05 | 26 U | 0.00E+00 | 26 U | 0.00E+00 | 100 U | 0.00E+00 | 26 U | 0.00E+00 | 4.67E-02 | 15.23 | | | |
| 2/24/2010 | 1893 | 631 | | 150 | 6.0 | U | 0.00E+00 | 6.0 U | 0.00E+00 | 130 | 1.95E-04 | 19 | 3.45E-05 | 6.0 U | 0.00E+00 | 6.0 U | 0.00E+00 | 6.0 U | 0.00E+00 | 58 | 1.32E-04 | 370 | 6.20E-04 | 9.52E-03 | 20.06 | | | |
| 3/15/2010 | 2345 | 782 | | 140 | 8.4 | U | 0.00E+00 | 8.4 U | 0.00E+00 | 170 | 2.38E-04 | 8.4 U | 0.00E+00 | 34 U | 0.00E+00 | 8.4 U | 0.00E+00 | 1.30E-02 | 22.02 | | | |
| 4/14/2010 | 2804 | 935 | | 150 | 12 | U | 0.00E+00 | 12 U | 0.00E+00 | 320 | 4.80E-04 | 14 | 2.54E-05 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 50 U | 0.00E+00 | 12 U | 0.00E+00 | 2.10E-02 | 25.22 | | | | | |
| 5/13/2010 | 3495 | 1165 | | 140 | 7.0 | U | 0.00E+00 | 7.0 U | 0.00E+00 | 100 | 1.40E-04 | 12 | 2.03E-05 | 7.0 U | 0.00E+00 | 7.0 U | 0.00E+00 | 28 U | 0.00E+00 | 7.0 U | 0.00E+00 | 1.10E-02 | 27.75 | | | | | |
| 6/21/2010 | 4430 | 1477 | | 108 | 8.6 | U | 0.00E+00 | 8.6 U | 0.00E+00 | 87 J | 9.40E-05 | 10 | 1.31E-05 | 8.6 U | 0.00E+00 | 8.6 U | 0.00E+00 | 34 J | 3.31E-05 | 8.6 U | 0.00E+00 | 7.86E-03 | 30.20 | | | | | |
| 7/21/2010 | 5058 | 1686 | | 140 | 7.0 | U | 0.00E+00 | 7.0 U | 0.00E+00 | 60 | 8.40E-05 | 7.0 U | 0.00E+00 | 7.0 U | 0.00E+00 | 7.0 U | 0.00E+00 | 28 U | 0.00E+00 | 7.0 U | 0.00E+00 | 1.11E-02 | 32.52 | | | | | |
| 8/23/2010 | 5784 | 1928 | | 0 | 8.2 | U | 0.00E+00 | 8.2 U | 0.00E+00 | 38 | 0.00E+00 | 24 | 0.00E+00 | 8.2 U | 0.00E+00 | 8.2 U | 0.00E+00 | 53 | 0.00E+00 | 8.2 U | 0.00E+00 | 0.00E+00 | 32.52 | | | | | |
| 9/23/2010 | 6523 | 2174 | | 145 | 7.2 | U | 0.00E+00 | 7.2 U | 0.00E+00 | 15 | 2.18E-05 | 17 | 2.98E-05 | 7.2 U | 0.00E+00 | 7.2 U | 0.00E+00 | 29 U | 0.00E+00 | 7.2 U | 0.00E+00 | 7.98E-03 | 34.49 | | | | | |
| 10/22/2010 | 7219 | 2405 | | 140 | 5.0 | U | 0.00E+00 | 5.0 U | 0.00E+00 | 11 | 1.54E-05 | 7.1 | 1.20E-05 | 5.0 U | 0.00E+00 | 5.0 U | 0.00E+00 | 45 | 5.67E-05 | 5.0 U | 0.00E+00 | 5.91E-03 | 35.86 | | | | | |
| 10/22/2010 | Dup | 7219 | | 2406 | 10 | U | 0.00E+00 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | 41 U | 0.00E+00 | 10 U | 0.00E+00 | 1.15E-02 | 37.16 | | | | | |
| 11/15/2010 | 7794 | 2598 | | 140 | 4.3 | U | 0.00E+00 | 4.3 U | 0.00E+00 | 12 | 1.68E-05 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | 17 U | 0.00E+00 | 4.3 U | 0.00E+00 | 5.73E-03 | 36.96 | | | | | |
| 12/22/2010 | 8508 | 2777 | | 150 | 4.2 | U | 0.00E+00 | 4.2 U | 0.00E+00 | 10 | 1.50E-05 | 5.3 | 9.63E-06 | 4.2 U | 0.00E+00 | 4.2 U | 0.00E+00 | 16 NJ | 2.16E-05 | 4.2 U | 0.00E+00 | 7.08E-03 | 38.22 | | | | | |
| 1/24/2011 | 9302 | 2975 | | 170 | 5.2 | U | 0.00E+00 | 5.2 U | 0.00E+00 | 5.2 U | 0.00E+00 | 5.2 U | 0.00E+00 | 5.2 U | 0.00E+00 | 5.2 U | 0.00E+00 | 21 U | 0.00E+00 | 5.2 U | 0.00E+00 | 6.28E-03 | 39.47 | | | | | |
| 2/25/2011 | 10071 | 3167 | | 165 | 4.0 | U | 0.00E+00 | 4.0 U | 0.00E+00 | 16 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 16 U | 0.00E+00 | 4.0 U | 0.00E+00 | 5.48E-03 | 40.53 | | | | | |
| 3/18/2011 | 10573 | 3293 | | 165 | 6.3 | U | 0.00E+00 | 6.3 U | 0.00E+00 | 25 U | 0.00E+00 | 6.3 U | 0.00E+00 | 6.3 U | 0.00E+00 | 6.3 U | 0.00E+00 | 25 U | 0.00E+00 | 6.3 U | 0.00E+00 | 5.97E-03 | 41.27 | | | | | |
| 4/15/2011 | 11241 | 3460 | | 160 | 4.5 | U | 0.00E+00 | 4.5 U | 0.00E+00 | 18 U | 0.00E+00 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 18 U | 0.00E+00 | 4.5 U | 0.00E+00 | 5.24E-03 | 42.15 | | | | | |
| 5/19/2011 | 12061 | 3665 | | 160 | 4.3 | U | 0.00E+00 | 4.3 U | 0.00E+00 | 17 U | 0.00E+00 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | 17 U | 0.00E+00 | 4.3 U | 0.00E+00 | 5.32E-03 | 42.87 | | | | | |
| 6/16/2011 | 12722 | 3830 | | 170 | 2.3 | U | 0.00E+00 | 2.3 U | 0.00E+00 | 9.2 U | 0.00E+00 | 2.3 U | 0.00E+00 | 2.3 U | 0.00E+00 | 2.3 U | 0.00E+00 | 9.2 U | 0.00E+00 | 9.2 U | 0.00E+00 | 3.12E-03 | 43.39 | | | | | |
| 7/15/2011 | 13417 | 4472 | | 170 | 1.2 | U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.5 | 3.09E-06 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 7.4 | 1.13E-05 | 4.8 U | 0.00E+00 | 2.44E-03 | 44.96 | | | | | |
| 8/22/2011 | 14324 | 4775 | | 170 | 1.1 | U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.5 U | 0.00E+00 | 8.7 | 1.38E-05 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 44 JB | 6.74E-05 | 4.5 U | 0.00E+00 | 2.10E-03 | 45.59 | | | | | |
| 9/15/2011 | 14905 | 4968 | | 170 | 1.1 | U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.5 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 5.6 | 8.57E-06 | 4.5 U | 0.00E+00 | 1.75E-03 | 45.93 | | | | | |
| 10/14/2011 | 15598 | 5199 | | 160 | 0.74 | U | 0.00E+00 | 0.74 U | 0.00E+00 | 3.0 U | 0.00E+00 | 0.74 U | 0.00E+00 | 0.74 U | 0.00E+00 | 0.74 U | 0.00E+00 | 18 | 2.59E-05 | 3.0 U | 0.00E+00 | 1.17E-03 | 46.20 | | | | | |
| 11/21/2011 | 16510 | 5503 | | 170 | 0.74 | U | 0.00E+00 | 0.74 U | 0.00E+00 | 3.0 U | 0.00E+0 | | | | | | | | | | | | | | | | | |

Table 4.2
Cell 2 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 2 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 2 Run Time (hr) | SVE Flow Rate (scfm) | 1,1,1-Trichloroethane | | 1,1,2-Trichloroethane | | 1,1-Dichloroethane | | 1,2-Dichloroethane | | 1,1-Dichloroethene | | cis-1,2-Dichloroethene | | trans-1,2-Dichloroethene | | Tetrachloroethene | |
|------------|-------------|-------------------|----------------------|----------------------|-----------------------|---------------------------|-----------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|------------------------|---------------------------|--------------------------|---------------------------|-------------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| 12/11/2009 | | 178 | 59 | 150 | 40000 | 1.24E-01 | 86 U | 0.00E+00 | 21000 | 4.83E-02 | 86 U | 0.00E+00 | 4500 | 1.01E-02 | 25000 | 5.64E-02 | 86 U | 0.00E+00 | 1500 | 5.78E-03 |
| 12/15/2009 | | 205 | 68 | 140 | 27000 | 7.82E-02 | 110 U | 0.00E+00 | 14000 | 3.01E-02 | 110 U | 0.00E+00 | 3100 | 6.52E-03 | 16000 | 3.37E-02 | 110 U | 0.00E+00 | 950 | 3.42E-03 |
| 12/29/2009 | | 539 | 180 | 140 | 24000 | 6.95E-02 | 100 U | 0.00E+00 | 9100 | 1.95E-02 | 100 U | 0.00E+00 | 2100 | 4.42E-03 | 9200 | 1.94E-02 | 100 U | 0.00E+00 | 1000 | 3.60E-03 |
| 1/13/2010 | | 903 | 301 | 150 | 9100 | 2.82E-02 | 35 U | 0.00E+00 | 3700 | 8.52E-03 | 35 U | 0.00E+00 | 880 | 1.98E-03 | 3200 | 7.21E-03 | 35 U | 0.00E+00 | 610 | 2.35E-03 |
| 1/27/2010 | | 1224 | 408 | 150 | 13000 | 4.03E-02 | 40 U | 0.00E+00 | 4300 | 9.90E-03 | 40 U | 0.00E+00 | 1100 | 2.48E-03 | 3900 | 8.79E-03 | 40 U | 0.00E+00 | 600 | 2.31E-03 |
| 1/27/2010 | Dup | 1224 | 408 | 150 | 14000 | 4.34E-02 | 40 U | 0.00E+00 | 4800 | 1.10E-02 | 40 U | 0.00E+00 | 1200 | 2.71E-03 | 4400 | 9.92E-03 | 40 U | 0.00E+00 | 630 | 2.43E-03 |
| 2/24/2010 | | 1893 | 631 | 150 | 8000 | 2.48E-02 | 22 U | 0.00E+00 | 3000 | 6.90E-03 | 22 U | 0.00E+00 | 520 | 1.17E-03 | 2300 | 5.19E-03 | 22 U | 0.00E+00 | 200 | 7.71E-04 |
| 3/15/2010 | | 2345 | 782 | 140 | 17000 | 4.92E-02 | 48 U | 0.00E+00 | 8000 | 1.72E-02 | 48 U | 0.00E+00 | 1100 | 2.31E-03 | 6300 | 1.33E-02 | 48 U | 0.00E+00 | 860 | 3.10E-03 |
| 4/14/2010 | | 2804 | 935 | 150 | 8400 | 2.61E-02 | 23 U | 0.00E+00 | 2200 | 5.06E-03 | 23 U | 0.00E+00 | 480 | 1.08E-03 | 2000 | 4.51E-03 | 23 U | 0.00E+00 | 1300 | 5.01E-03 |
| 5/13/2010 | | 3495 | 1165 | 140 | 8000 | 2.32E-02 | 11 U | 0.00E+00 | 3100 | 6.66E-03 | 11 U | 0.00E+00 | 480 | 1.01E-03 | 2800 | 5.89E-03 | 11 U | 0.00E+00 | 380 | 1.37E-03 |
| 6/21/2010 | | 4430 | 1477 | 108 | 5800 | 1.30E-02 | 23 U | 0.00E+00 | 3000 J | 4.97E-03 | 23 U | 0.00E+00 | 360 J | 5.84E-04 | 2100 | 3.41E-03 | 23 U | 0.00E+00 | 300 | 8.33E-04 |
| 7/21/2010 | | 5058 | 1686 | 140 | 4500 | 1.30E-02 | 14 U | 0.00E+00 | 1600 | 3.44E-03 | 14 U | 0.00E+00 | 280 | 5.89E-04 | 1200 | 2.53E-03 | 14 U | 0.00E+00 | 260 | 9.36E-04 |
| 8/23/2010 | | 5784 | 1928 | 0 | 7100 | 0.00E+00 | 20 U | 0.00E+00 | 2700 | 0.00E+00 | 20 U | 0.00E+00 | 290 | 0.00E+00 | 1400 | 0.00E+00 | 20 U | 0.00E+00 | 620 | 0.00E+00 |
| 9/23/2010 | | 6523 | 2174 | 145 | 4300 | 1.29E-02 | 12 U | 0.00E+00 | 1600 | 3.56E-03 | 12 U | 0.00E+00 | 270 | 5.88E-04 | 940 | 2.05E-03 | 12 U | 0.00E+00 | 290 | 1.08E-03 |
| 10/22/2010 | | 7219 | 2406 | 140 | 2500 | 7.24E-03 | 10 U | 0.00E+00 | 890 | 1.91E-03 | 10 U | 0.00E+00 | 110 | 2.31E-04 | 470 | 9.89E-04 | 10 U | 0.00E+00 | 180 | 6.48E-04 |
| 11/15/2010 | | 7794 | 2598 | 140 | 3200 | 9.27E-03 | 11 U | 0.00E+00 | 1100 | 2.36E-03 | 11 U | 0.00E+00 | 130 | 2.74E-04 | 440 | 9.26E-04 | 11 U | 0.00E+00 | 120 | 4.32E-04 |
| 12/22/2010 | | 8508 | 2955 | 150 | 4000 | 1.24E-02 | 14 U | 0.00E+00 | 1500 | 3.45E-03 | 14 U | 0.00E+00 | 240 | 5.41E-04 | 730 | 1.65E-03 | 14 U | 0.00E+00 | 72 | 2.78E-04 |
| 1/24/2011 | | 9302 | 3352 | 170 | 780 | 2.74E-03 | 2.7 U | 0.00E+00 | 800 | 2.09E-03 | 2.7 U | 0.00E+00 | 22 | 5.62E-05 | 390 | 9.96E-04 | 2.7 U | 0.00E+00 | 26 | 1.14E-04 |
| 2/25/2011 | | 10071 | 3737 | 165 | 1500 | 5.12E-03 | 4.0 U | 0.00E+00 | 1100 | 2.78E-03 | 4.0 U | 0.00E+00 | 44 | 1.09E-04 | 560 | 1.39E-03 | 4.0 U | 0.00E+00 | 32 | 1.36E-04 |
| 3/18/2011 | | 10573 | 3988 | 165 | 370 | 1.26E-03 | 1.0 U | 0.00E+00 | 160 | 4.05E-04 | 1.0 U | 0.00E+00 | 11 | 2.73E-05 | 62 | 1.54E-04 | 1.0 U | 0.00E+00 | 19 | 8.06E-05 |
| 4/15/2011 | | 11241 | 4322 | 160 | 300 J,B | 9.93E-04 | 1.0 U | 0.00E+00 | 95 | 2.33E-04 | 1.0 U | 0.00E+00 | 12 | 2.89E-05 | 41 | 9.86E-05 | 1.0 U | 0.00E+00 | 20 | 8.23E-05 |
| 5/19/2011 | | 12061 | 4732 | 160 | 93 | 3.08E-04 | 1.1 U | 0.00E+00 | 39 | 9.57E-05 | 1.1 U | 0.00E+00 | 3.5 | 8.42E-06 | 21 | 5.05E-05 | 1.1 U | 0.00E+00 | 14 | 5.76E-05 |
| 6/16/2011 | | 12722 | 5062 | 170 | 99 | 3.48E-04 | 1.2 U | 0.00E+00 | 48 | 1.25E-04 | 1.2 U | 0.00E+00 | 2.4 | 6.13E-06 | 21 | 5.37E-05 | 1.2 U | 0.00E+00 | 30 | 1.31E-04 |
| 7/15/2011 | | 13417 | 4472 | 170 | 77 | 2.71E-04 | 1.2 U | 0.00E+00 | 25 | 6.52E-05 | 1.2 U | 0.00E+00 | 1.7 | 4.34E-06 | 18 | 4.60E-05 | 1.2 U | 0.00E+00 | 30 | 1.31E-04 |
| 8/22/2011 | | 14324 | 4775 | 170 | 78 | 2.74E-04 | 1.2 U | 0.00E+00 | 31 | 8.09E-05 | 1.2 U | 0.00E+00 | 1.2 | 3.07E-06 | 17 | 4.34E-05 | 1.2 U | 0.00E+00 | 54 | 2.36E-04 |
| 9/15/2011 | | 14905 | 4968 | 170 | 69 | 2.43E-04 | 1.1 U | 0.00E+00 | 20 | 5.22E-05 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 12 | 3.07E-05 | 1.1 U | 0.00E+00 | 32 | 1.40E-04 |
| 10/14/2011 | | 15598 | 5199 | 160 | 43 | 1.42E-04 | 0.82 U | 0.00E+00 | 12 | 2.95E-05 | 0.82 U | 0.00E+00 | 0.82 U | 0.00E+00 | 6.3 | 1.52E-05 | 0.82 U | 0.00E+00 | 8.4 | 3.46E-05 |
| 11/21/2011 | | 16510 | 5503 | 170 | 28 J,B | 9.85E-05 | 1.6 U | 0.00E+00 | 7.7 | 2.01E-05 | 1.6 U | 0.00E+00 | 1.6 U | 0.00E+00 | 4.1 | 1.05E-05 | 1.6 U | 0.00E+00 | 7 | 3.06E-05 |
| 12/14/2011 | | 17010 | 5670 | 170 | 26 | 9.14E-05 | 0.76 U | 0.00E+00 | 5.2 | 1.36E-05 | 0.76 U | 0.00E+00 | 2.4 | 6.13E-06 | 4.2 | 1.07E-05 | 0.76 U | 0.00E+00 | 6.9 | 3.02E-05 |
| 1/19/2012 | | 17923 | 5 | | | | | | | | | | | | | | | | | |

Table 4.2
Cell 2 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 2 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 2 Run Time (hr) | SVE Flow Rate (scfm) | Trichloroethene | | Vinyl chloride | | Methylene Chloride | | Carbon Tetrachloride | | Chloroform | | Chloroethane | | Benzene | | Toluene | |
|------------|-------------|-------------------|----------------------|----------------------|-----------------|---------------------------|----------------|---------------------------|--------------------|---------------------------|----------------------|---------------------------|-------------|---------------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| 12/11/2009 | | 178 | 59 | 150 | 330 | 1.01E-03 | 4400 | 6.40E-03 | 86 U | 0.00E+00 | 86 U | 0.00E+00 | 210 | 3.15E-04 | 86 U | 0.00E+00 | 200 | 4.29E-04 | | |
| 12/15/2009 | | 205 | 68 | 140 | 240 | 6.84E-04 | 3500 | 4.75E-03 | 110 U | 0.00E+00 | 110 U | 0.00E+00 | 370 | 5.18E-04 | 110 U | 0.00E+00 | 140 | 2.80E-04 | | |
| 12/29/2009 | | 539 | 180 | 140 | 240 | 6.84E-04 | 1500 | 2.03E-03 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 120 | 1.68E-04 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | | |
| 1/13/2010 | | 903 | 301 | 150 | 130 | 3.97E-04 | 250 | 3.63E-04 | 35 U | 0.00E+00 | 35 U | 0.00E+00 | 170 | 2.55E-04 | 35 U | 0.00E+00 | 35 U | 0.00E+00 | | |
| 1/27/2010 | | 1224 | 408 | 150 | 150 | 4.58E-04 | 200 | 2.91E-04 | 40 U | 0.00E+00 | 40 U | 0.00E+00 | 120 | 1.80E-04 | 40 U | 0.00E+00 | 40 U | 0.00E+00 | | |
| 1/27/2010 | Dup | 1224 | 408 | 150 | 180 | 5.50E-04 | 240 | 3.49E-04 | 40 U | 0.00E+00 | 40 U | 0.00E+00 | 130 | 1.95E-04 | 40 U | 0.00E+00 | 40 U | 0.00E+00 | | |
| 2/24/2010 | | 1893 | 631 | 150 | 98 | 2.99E-04 | 73 | 1.06E-04 | 22 U | 0.00E+00 | 22 U | 0.00E+00 | 38 | 5.70E-05 | 22 U | 0.00E+00 | 22 U | 0.00E+00 | | |
| 3/15/2010 | | 2345 | 782 | 140 | 210 | 5.99E-04 | 62 | 8.41E-05 | 48 U | 0.00E+00 | 48 U | 0.00E+00 | 180 | 2.52E-04 | 48 U | 0.00E+00 | 48 U | 0.00E+00 | | |
| 4/14/2010 | | 2804 | 935 | 150 | 190 | 5.81E-04 | 69 | 1.00E-04 | 23 U | 0.00E+00 | 23 U | 0.00E+00 | 23 U | 0.00E+00 | 23 U | 0.00E+00 | 23 U | 0.00E+00 | | |
| 5/13/2010 | | 3495 | 1165 | 140 | 78 | 2.22E-04 | 42 | 5.70E-05 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 20 | 2.80E-05 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | | |
| 6/21/2010 | | 4430 | 1477 | 108 | 88 | 1.94E-04 | 23 U | 0.00E+00 | 23 UJ | 0.00E+00 | 23 U | 0.00E+00 | 33 J | 3.56E-05 | 23 U | 0.00E+00 | 23 U | 0.00E+00 | | |
| 7/21/2010 | | 5058 | 1686 | 140 | 80 | 2.28E-04 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | | |
| 8/23/2010 | | 5784 | 1928 | 0 | 150 | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 21 | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | | |
| 9/23/2010 | | 6523 | 2174 | 145 | 74 | 2.19E-04 | 12 | 1.69E-05 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | | |
| 10/22/2010 | | 7219 | 2406 | 140 | 42 | 1.20E-04 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | | |
| 11/15/2010 | | 7794 | 2598 | 140 | 35 | 9.98E-05 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | | |
| 12/22/2010 | | 8508 | 2955 | 150 | 27 | 8.25E-05 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | | |
| 1/24/2011 | | 9302 | 3352 | 170 | 9 | 3.12E-05 | 2.7 U | 0.00E+00 | 2.7 U | 0.00E+00 | 2.7 U | 0.00E+00 | 2.7 U | 0.00E+00 | 2.7 U | 0.00E+00 | 3.1 | 7.53E-06 | | |
| 2/25/2011 | | 10071 | 3737 | 165 | 15 | 5.04E-05 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | | |
| 3/18/2011 | | 10573 | 3988 | 165 | 7.3 | 2.45E-05 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | | |
| 4/15/2011 | | 11241 | 4322 | 160 | 8.5 | 2.77E-05 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 4.1 U | 0.00E+00 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | | |
| 5/19/2011 | | 12061 | 4732 | 160 | 11 | 3.59E-05 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.5 U | 0.00E+00 | 8.1 | 1.57E-05 | 1.1 U | 0.00E+00 | | |
| 6/16/2011 | | 12722 | 5062 | 170 | 15 | 5.19E-05 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.9 | 3.91E-06 | 1.2 U | 0.00E+00 | | |
| 7/15/2011 | | 13417 | 4472 | 170 | 21 | 7.27E-05 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.6 U | 0.00E+00 | 5.3 | 1.09E-05 | 1.2 U | 0.00E+00 | | |
| 8/22/2011 | | 14324 | 4775 | 170 | 22 | 7.62E-05 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.6 | 3.29E-06 | 1.2 U | 0.00E+00 | | |
| 9/15/2011 | | 14905 | 4968 | 170 | 18 | 6.23E-05 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.5 U | 0.00E+00 | 4.6 | 9.47E-06 | 1.1 U | 0.00E+00 | | |
| 10/14/2011 | | 15598 | 5199 | 160 | 9.1 | 2.97E-05 | 0.82 U | 0.00E+00 | 0.82 U | 0.00E+00 | 0.82 U | 0.00E+00 | 3.3 U | 0.00E+00 | 0.82 U | 0.00E+00 | 0.82 U | 0.00E+00 | | |
| 11/21/2011 | | 16510 | 5503 | 170 | 5.1 | 1.77E-05 | 1.6 U | 0.00E+00 | 1.6 UJ | 0.00E+00 | 1.6 U | 0.00E+00 | 6.4 U | 0.00E+00 | 1.6 U | 0.00E+00 | 1.6 U | 0.00E+00 | | |
| 12/14/2011 | | 17010 | 5670 | 170 | 3.4 | 1.18E-05 | 0.76 U | 0.00E+00 | 7.6 U | 0.00E+00 | 0.76 U | 0.00E+00 | 3.0 U | 0.00E+00 | 0.78 | 1.61E-06 | 0.76 U | 0.00E+00 | | |
| 1/19/2012 | | 17923 | 5974 | 170 | 2.9 | 1.00E-05 | 0.74 U | 0.00E+00 | 1.9 | 4.25E-06 | 0.74 U | 0.00E+00 | 3.0 U | 0.00E+00 | 0.74 U | 0.00E+00 | 1 | 2.43E-06 | | |
| 2/15/2012 | | 18566 | 6189 | 170 | 2.2 | 7.62E-06 | 0.73 U | 0.00E+00 | 0.73 U | 0.00E+00 | 0.73 U | 0.00E+00 | 2.9 U | 0.00E+00 | 0.73 U | 0.00E+00 | 0.73 U | 0.00E+00 | | |
| 3/15/2012 | | 19262 | 6421 | 170 | 2.4 | 8.31E-06 | 0.71 U | 0.00E+00 | 0.71 U | 0.00E+00 | 0.71 U | 0.00E+00 | 2.8 U | 0.00E+00 | 0.71 U | 0.00E+00 | 1.6 | 3.89E-06 | | |
| 4/19/2012 | | 20102 | 6701 | 160 | 4.3 | 1.40E-05 | 0.76 U | 0.00E+00 | 0.76 U | 0.00E+00 | 0.76 U</td | | | | | | | | | |

Table 4.2
Cell 2 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 2 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 2 Run Time (hr) | SVE Flow Rate (scfm) | Ethylbenzene | | m&p-Xylenes | | o-Xylenes | | Acetone | | Methyl Ethyl Ketone (MEK) | | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) |
|------------|-------------|-------------------|----------------------|----------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | | |
| 12/11/2009 | | 178 | 59 | 150 | 86 U | 0.00E+00 | 240 | 5.93E-04 | 110 | 2.72E-04 | 340 U | 0.00E+00 | 86 U | 0.00E+00 | 2.54E-01 | 15.05 |
| 12/15/2009 | | 205 | 68 | 140 | 110 U | 0.00E+00 | 230 | 5.30E-04 | 110 U | 0.00E+00 | 430 U | 0.00E+00 | 110 U | 0.00E+00 | 1.59E-01 | 16.48 |
| 12/29/2009 | | 539 | 180 | 140 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 420 U | 0.00E+00 | 100 U | 0.00E+00 | 1.19E-01 | 29.76 |
| 1/13/2010 | | 903 | 301 | 150 | 35 U | 0.00E+00 | 35 U | 0.00E+00 | 35 U | 0.00E+00 | 140 U | 0.00E+00 | 35 U | 0.00E+00 | 4.93E-02 | 35.75 |
| 1/27/2010 | | 1224 | 408 | 150 | 40 U | 0.00E+00 | 40 U | 0.00E+00 | 40 U | 0.00E+00 | 160 U | 0.00E+00 | 40 U | 0.00E+00 | 6.47E-02 | 42.68 |
| 1/27/2010 | Dup | 1224 | 408 | 150 | 40 U | 0.00E+00 | 40 U | 0.00E+00 | 40 U | 0.00E+00 | 160 U | 0.00E+00 | 40 U | 0.00E+00 | 7.06E-02 | 43.31 |
| 2/24/2010 | | 1893 | 631 | 150 | 22 U | 0.00E+00 | 22 U | 0.00E+00 | 22 U | 0.00E+00 | 87 U | 0.00E+00 | 22 U | 0.00E+00 | 3.93E-02 | 51.44 |
| 3/15/2010 | | 2345 | 782 | 140 | 48 U | 0.00E+00 | 48 U | 0.00E+00 | 48 U | 0.00E+00 | 190 U | 0.00E+00 | 48 U | 0.00E+00 | 8.60E-02 | 64.40 |
| 4/14/2010 | | 2804 | 935 | 150 | 23 U | 0.00E+00 | 23 U | 0.00E+00 | 23 U | 0.00E+00 | 92 U | 0.00E+00 | 23 U | 0.00E+00 | 4.24E-02 | 70.89 |
| 5/13/2010 | | 3495 | 1165 | 140 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 43 U | 0.00E+00 | 11 U | 0.00E+00 | 3.84E-02 | 79.74 |
| 6/21/2010 | | 4430 | 1477 | 108 | 23 U | 0.00E+00 | 23 U | 0.00E+00 | 23 U | 0.00E+00 | 92 U | 0.00E+00 | 23 U | 0.00E+00 | 2.30E-02 | 86.90 |
| 7/21/2010 | | 5058 | 1686 | 140 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 58 U | 0.00E+00 | 14 U | 0.00E+00 | 2.07E-02 | 91.24 |
| 8/23/2010 | | 5784 | 1928 | 0 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 81 U | 0.00E+00 | 20 U | 0.00E+00 | 0.00E-00 | 91.24 |
| 9/23/2010 | | 6523 | 2174 | 145 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 47 U | 0.00E+00 | 12 U | 0.00E+00 | 2.04E-02 | 96.27 |
| 10/22/2010 | | 7219 | 2406 | 140 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | 10 U | 0.00E+00 | 42 U | 0.00E+00 | 10 U | 0.00E+00 | 1.11E-02 | 98.85 |
| 11/15/2010 | | 7794 | 2598 | 140 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 44 U | 0.00E+00 | 11 U | 0.00E+00 | 1.34E-02 | 101.41 |
| 12/22/2010 | | 8508 | 2955 | 150 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 56 U | 0.00E+00 | 14 U | 0.00E+00 | 1.84E-02 | 107.99 |
| 1/24/2011 | | 9302 | 3352 | 170 | 2.7 U | 0.00E+00 | 2.7 U | 0.00E+00 | 2.7 U | 0.00E+00 | 11 U | 0.00E+00 | 11 | 2.09E-05 | 6.06E-03 | 110.39 |
| 2/25/2011 | | 10071 | 3737 | 165 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 9.59E-03 | 114.08 |
| 3/18/2011 | | 10573 | 3988 | 165 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 15 | 2.23E-05 | 4.0 U | 0.00E+00 | 1.98E-03 | 114.57 |
| 4/15/2011 | | 11241 | 4322 | 160 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 8.2 J,B | 1.18E-05 | 4.1 U | 0.00E+00 | 1.48E-03 | 115.07 |
| 5/19/2011 | | 12061 | 4732 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 | 1.58E-05 | 4.5 U | 0.00E+00 | 5.87E-04 | 115.31 |
| 6/16/2011 | | 12722 | 5062 | 170 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 19 | 2.91E-05 | 4.7 U | 0.00E+00 | 7.49E-04 | 115.55 |
| 7/15/2011 | | 13417 | 4472 | 170 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 19 | 2.91E-05 | 4.6 U | 0.00E+00 | 6.30E-04 | 115.18 |
| 8/22/2011 | | 14324 | 4775 | 170 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 6.8 J,B | 1.04E-05 | 4.7 U | 0.00E+00 | 7.28E-04 | 115.40 |
| 9/15/2011 | | 14905 | 4968 | 170 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 | 1.68E-05 | 4.5 U | 0.00E+00 | 5.54E-04 | 115.51 |
| 10/14/2011 | | 15598 | 5199 | 160 | 0.82 U | 0.00E+00 | 0.82 U | 0.00E+00 | 0.82 U | 0.00E+00 | 5 | 7.20E-06 | 3.3 U | 0.00E+00 | 2.58E-04 | 115.57 |
| 11/21/2011 | | 16510 | 5503 | 170 | 1.6 U | 0.00E+00 | 1.6 U | 0.00E+00 | 1.6 U | 0.00E+00 | 6.4 UJ | 0.00E+00 | 6.4 U | 0.00E+00 | 1.77E-04 | 115.62 |
| 12/14/2011 | | 17010 | 5670 | 170 | 0.76 U | 0.00E+00 | 0.76 U | 0.00E+00 | 0.76 U | 0.00E+00 | 7.6 UJ | 0.00E+00 | 3.0 U | 0.00E+00 | 1.65E-04 | 115.65 |
| 1/19/2012 | | 17923 | 5974 | 170 | 0.79 | 2.21E-06 | 1.5 | 4.20E-06 | 1.1 | 3.08E-06 | 14 | 2.14E-05 | 3.0 U | 0.00E+00 | 1.80E-04 | 115.71 |
| 2/15/2012 | | 18566 | 6189 | 170 | 0.73 U | 0.00E+00 | 0.73 U | 0.00E+00 | 0.73 U | 0.00E+00 | 7.9 | 1.21E-05 | 2.9 U | 0.00E+00 | 1.83E-04 | 115.74 |
| 3/15/2012 | | 19262 | 6421 | 170 | 0.71 U | 0.00E+00 | 0.71 U | 0.00E+00 | 0.71 U | 0.00E+00 | 8.9 | 1.36E-05 | 2.8 U | 0.00E+00 | 1.75E-04 | 115.79 |
| 4/19/2012 | | 20102 | 6701 | 160 | 0.76 U | 0.00E+00 | 0.76 U | 0.00E+00 | 0.76 U | 0.00E+00 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 1.88E-04 | 115.84 |
| 5/16/2012 | | 20748 | 6916 | 160 | 0.78 U | 0.00E+00 | 0.78 U | 0.00E+00 | 0.78 U | 0.00E+00 | 3.1 U | 0.00E+00 | 3.1 U | 0.00E+00 | 1.94E-04 | 115.88 |

Table 4.2
Cell 2 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

| 1,1,1-Trichloroethane | | 1,1,2-Trichloroethane | | 1,1-Dichloroethane | | 1,2-Dichloroethane | | 1,1-Dichloroethene | | cis-1,2-Dichloroethene | | trans-1,2-Dichloroethene | | Tetrachloroethene | |
|-----------------------|---------------------------|-----------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|------------------------|---------------------------|--------------------------|---------------------------|-------------------|---------------------------|
| Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| 370 | 1.22E-03 | 1.3 U | 0.00E+00 | 160 | 3.93E-04 | 1.3 U | 0.00E+00 | 4.5 | 1.08E-05 | 11 | 2.65E-05 | 1.3 U | 0.00E+00 | 16 | 6.58E-05 |
| 180 | 5.96E-04 | 1.1 U | 0.00E+00 | 36 | 8.84E-05 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 10 | 2.40E-05 | 1.1 U | 0.00E+00 | 20 | 8.23E-05 |
| <hr/> | | | | | | | | | | | | | | | |
| 430 | 1.42E-03 | 1.1 U | 0.00E+00 | 140 | 3.44E-04 | 1.1 U | 0.00E+00 | 12 | 2.89E-05 | 13 | 3.13E-05 | 1.1 U | 0.00E+00 | 41 | 1.69E-04 |
| 610 | 2.14E-03 | 1.9 U | 0.00E+00 | 11 | 2.87E-05 | 1.9 U | 0.00E+00 | 12 | 3.07E-05 | 4 | 1.02E-05 | 1.9 U | 0.00E+00 | 5.3 | 2.32E-05 |
| <hr/> | | | | | | | | | | | | | | | |
| 1.9 | 6.29E-06 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 140 | 4.63E-04 | 1.2 U | 0.00E+00 | 10 | 2.45E-05 | 1.2 U | 0.00E+00 | 4 | 9.62E-06 | 3.3 | 7.94E-06 | 1.2 U | 0.00E+00 | 5.4 | 2.22E-05 |
| <hr/> | | | | | | | | | | | | | | | |
| 210 | 6.95E-04 | 1.1 U | 0.00E+00 | 62 | 1.52E-04 | 1.2 U | 0.00E+00 | 3.9 | 9.38E-06 | 5.4 | 1.30E-05 | 1.1 U | 0.00E+00 | 6.4 | 2.63E-05 |
| 160 | 5.29E-04 | 1.1 U | 0.00E+00 | 20 | 4.91E-05 | 1.1 U | 0.00E+00 | 3.7 | 8.90E-06 | 3.7 | 8.90E-06 | 1.1 U | 0.00E+00 | 21 | 8.64E-05 |
| 160 | 5.29E-04 | 1.2 U | 0.00E+00 | 20 | 4.91E-05 | 1.2 U | 0.00E+00 | 3.2 | 7.70E-06 | 3.5 | 8.42E-06 | 1.2 U | 0.00E+00 | 17 | 6.99E-05 |
| <hr/> | | | | | | | | | | | | | | | |
| 380 | 1.26E-03 | 2.0 U | 0.00E+00 | 110 | 2.70E-04 | 2.0 U | 0.00E+00 | 3.4 | 8.18E-06 | 7 | 1.68E-05 | 2.0 U | 0.00E+00 | 49 | 2.02E-04 |
| 44 | 1.46E-04 | 1.1 U | 0.00E+00 | 11 | 2.70E-05 | 1.1 U | 0.00E+00 | 1.3 | 3.13E-06 | 2.3 | 5.53E-06 | 1.1 U | 0.00E+00 | 14 | 5.76E-05 |
| <hr/> | | | | | | | | | | | | | | | |
| 160 | 5.29E-04 | 1.2 U | 0.00E+00 | 55 | 1.35E-04 | 1.2 U | 0.00E+00 | 3.3 | 7.94E-06 | 2.9 | 6.97E-06 | 1.2 U | 0.00E+00 | 7.2 | 2.96E-05 |
| 16 | 5.29E-05 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.9 | 4.57E-06 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 19 | 6.29E-05 | 1.2 U | 0.00E+00 | 1.6 | 3.93E-06 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.8 | 4.33E-06 | 1.2 U | 0.00E+00 | 1.7 | 6.99E-06 |
| <hr/> | | | | | | | | | | | | | | | |
| 240 | 7.94E-04 | 1.1 U | 0.00E+00 | 99 | 2.43E-04 | 1.1 U | 0.00E+00 | 4.8 | 1.15E-05 | 7.8 | 1.88E-05 | 1.1 U | 0.00E+00 | 14 | 5.76E-05 |
| 89 | 2.95E-04 | 1.2 U | 0.00E+00 | 20 | 4.91E-05 | 1.2 U | 0.00E+00 | 1.8 | 4.33E-06 | 3.7 | 8.90E-06 | 1.2 U | 0.00E+00 | 11 | 4.52E-05 |
| <hr/> | | | | | | | | | | | | | | | |
| 310 | 1.03E-03 | 2.1 U | 0.00E+00 | 120 | 2.95E-04 | 2.1 U | 0.00E+00 | 3.9 | 9.38E-06 | 6 | 1.44E-05 | 2.1 U | 0.00E+00 | 19 | 7.82E-05 |
| 42 | 1.39E-04 | 1.1 U | 0.00E+00 | 7.8 | 1.91E-05 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.6 | 3.85E-06 | 1.1 U | 0.00E+00 | 11 | 4.52E-05 |
| <hr/> | | | | | | | | | | | | | | | |
| 210 | 6.95E-04 | 1.2 U | 0.00E+00 | 69 | 1.69E-04 | 1.2 U | 0.00E+00 | 3.7 | 8.90E-06 | 3.4 | 8.18E-06 | 1.2 U | 0.00E+00 | 8.2 | 3.37E-05 |
| 18 | 5.96E-05 | 1.3 U | 0.00E+00 | 5.4 | 1.33E-05 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 3.5 | 1.44E-05 |
| <hr/> | | | | | | | | | | | | | | | |
| 240 | 7.94E-04 | 1.2 U | 0.00E+00 | 76 | 1.87E-04 | 1.2 U | 0.00E+00 | 3.0 | 7.21E-06 | 3.5 | 8.42E-06 | 1.2 U | 0.00E+00 | 8.2 | 3.37E-05 |
| 64 | 2.12E-04 | 1.2 U | 0.00E+00 | 17 | 4.17E-05 | 1.2 U | 0.00E+00 | 1.7 | 4.09E-06 | 4.2 | 1.01E-05 | 1.2 U | 0.00E+00 | 8.6 | 3.54E-05 |
| <hr/> | | | | | | | | | | | | | | | |
| 450 | 1.49E-03 | 1.1 U | 0.00E+00 | 210 | 5.16E-04 | 1.1 U | 0.00E+00 | 3.4 | 8.18E-06 | 9.6 | 2.31E-05 | 1.1 U | 0.00E+00 | 28 | 1.15E-04 |
| 43 | 1.42E-04 | 1.2 U | 0.00E+00 | 12 | 2.95E-05 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.5 | 3.61E-06 | 1.2 U | 0.00E+00 | 14 | 5.76E-05 |
| <hr/> | | | | | | | | | | | | | | | |
| 260 | 8.60E-04 | 1.1 U | 0.00E+00 | 89 | 2.18E-04 | 1.1 U | 0.00E+00 | 2.5 | 6.01E-06 | 3.2 | 7.70E-06 | 1.1 U | 0.00E+00 | 14 | 5.76E-05 |
| 23 | 7.61E-05 | 1.1 U | 0.00E+00 | 9.5 | 2.33E-05 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 3.6 | 1.48E-05 |

Table 4.2
Cell 2 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 2 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 2 Run Time (hr) | SVE Flow Rate (scfm) | Trichloroethene | | Vinyl chloride | | Methylene Chloride | | Carbon Tetrachloride | | Chloroform | | Chloroethane | | Benzene | | Toluene | |
|-------------------|---|-------------------|----------------------|----------------------|-----------------|---------------------------|----------------|---------------------------|--------------------|---------------------------|----------------------|---------------------------|-------------|---------------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| Pulse -off period | June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | | | | |
| 8/14/2012 | | 21282 | 7094 | 160 | 12 | 3.91E-05 | 1.3 U | 0.00E+00 | 13 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 5.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 |
| 9/17/2012 | | 21952 | 7317 | 160 | 29 | 9.45E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.3 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| Pulse -off period | September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | | | | | |
| 11/15/2012 | | 21959 | 7320 | 160 | 26 | 8.47E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.5 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 12/14/2012 | | 22554 | 7518 | 170 | 17 | 5.89E-05 | 1.9 U | 0.00E+00 | 19 U | 0.00E+00 | 1.9 U | 0.00E+00 | 1.9 U | 0.00E+00 | 7.4 U | 0.00E+00 | 1.9 U | 0.00E+00 | 1.9 U | 0.00E+00 |
| Pulse -off period | December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | | | | | |
| 2/26/2013 | | 22556 | 7518 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 5 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 4/11/2013 | | 23581 | 7723 | 160 | 8 | 2.61E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period | April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | | | | | |
| 5/10/2013 | | 23583 | 7724 | 160 | 9.5 | 3.10E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 18 | 2.88E-05 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 7/15/2013 | | 25160 | 8039 | 160 | 24 | 7.82E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 7/15/2013 | Dup | 25160 | 8039 | 160 | 24 | 7.82E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period | July 15, 2013 to September 9, 2013 | | | | | | | | | | | | | | | | | | | |
| 9/9/2013 | | 25162 | 8040 | 160 | 31 | 1.01E-04 | 2.0 U | 0.00E+00 | 20 U | 0.00E+00 | 2.0 U | 0.00E+00 | 2.0 U | 0.00E+00 | 8.0 U | 0.00E+00 | 2.0 U | 0.00E+00 | 2.0 U | 0.00E+00 |
| 11/18/2013 | | 26825 | 8372 | 160 | 8.4 | 2.74E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| Pulse -off period | November 18, 2013 to January 15, 2014 | | | | | | | | | | | | | | | | | | | |
| 1/15/2014 | | 28218 | 8651 | 160 | 7.2 | 2.35E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.9 | 1.12E-05 |
| 3/14/2014 | | 29432 | 8894 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.9 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 3/14/2014 | Dup | 29432 | 8894 | 160 | 1.5 | 4.89E-06 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 5.0 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period | March 14, 2014 to May 15, 2014 | | | | | | | | | | | | | | | | | | | |
| 5/15/2014 | | 29914 | 8990 | 160 | 6.6 | 2.15E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 16 | 2.56E-05 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 7/23/2014 | | 31567 | 9321 | 160 | 19 | 6.19E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period | July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | | | | | |
| 9/16/2014 | | 32432 | 9494 | 160 | 26 | 8.47E-05 | 2.1 U | 0.00E+00 | 21 U | 0.00E+00 | 2.1 U | 0.00E+00 | 2.1 U | 0.00E+00 | 8.3 U | 0.00E+00 | 3.5 | 6.78E-06 | 2.1 U | 0.00E+00 |
| 11/14/2014 | | 33847 | 9777 | 160 | 7.3 | 2.38E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| Pulse -off period | November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | | | | | |
| 1/9/2015 | | 33855 | 9778 | 160 | 9.3 | 3.03E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.8 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 3/13/2015 | | 35189 | 10045 | 160 | 3.0 | 9.78E-06 | 1.3 U | 0.00E+00 | 13 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 5.0 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 |
| Pulse -off period | March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | | | | | |
| 5/15/2015 | | 35194 | 10046 | 160 | 5.4 | 1.76E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 7.0 | 1.12E-05 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 7/16/2015 | | 36677 | 10343 | 160 | 18.0 | 5.87E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period | July 16, 2015 to September 22, 2015 | | | | | | | | | | | | | | | | | | | |
| 9/22/2015 | | 36680 | 10343 | 160 | 30 | 9.78E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.5 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 11/20/2015 | | 38094 | 10626 | 160 | 9.7 | 3.16E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period | November 20, 2015 to January 19, 2016 | | | | | | | | | | | | | | | | | | | |
| 1/19/2016 | | 38101 | 10627 | 160 | 8.5 | 2.77E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.3 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 3/18/2016 | | 39377 | 10883 | 160 | 3 | 9.78E-06 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.5 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |

Notes

Mass removal rate = (flow rate in scfm)(concentration in ppmv)(60)(MW) / (387*1000000)

"U" indicates non-detection at the specified reporting limit; for ND compounds, zero is used in mass removal calculations.

MW molecular weight (values from the U.S. National Library of Medicine)

SCEM standard cubic feet per minute

| Indicates estimated value.

B The analyte was detected in the method, field and/or trip blank.

When a duplicate sample was collected, the original sample results are used in the mass calculations.

Table 4.2
Cell 2 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 2 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 2 Run Time (hr) | SVE Flow Rate (scfm) | Ethylbenzene | | m&p-Xylenes | | o-Xylenes | | Acetone | | Methyl Ethyl Ketone (MEK) | | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) |
|-------------------|---|-------------------|----------------------|----------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | | |
| Pulse -off period | June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | |
| 8/14/2012 | | 21282 | 7094 | 160 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 21 | 3.03E-05 | 5.3 U | 0.00E+00 | 1.79E-03 | 116.20 |
| 9/17/2012 | | 21952 | 7317 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.3 U | 0.00E+00 | 8.85E-04 | 116.40 |
| Pulse -off period | September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | * |
| 11/15/2012 | | 21959 | 7320 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.5 U | 0.00E+00 | 2.08E-03 | 116.40 |
| 12/14/2012 | | 22554 | 7518 | 170 | 1.9 U | 0.00E+00 | 1.9 U | 0.00E+00 | 1.9 U | 0.00E+00 | 19 U | 0.00E+00 | 7.4 U | 0.00E+00 | 2.30E-03 | 116.86 |
| Pulse -off period | December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | |
| 2/26/2013 | | 22556 | 7518 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 5 U | 0.00E+00 | 6.29E-06 | 116.86 |
| 4/11/2013 | | 23581 | 7723 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.7 U | 0.00E+00 | 5.54E-04 | 116.97 |
| Pulse -off period | April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | |
| 5/10/2013 | | 23583 | 7724 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.5 U | 0.00E+00 | 9.56E-04 | 116.97 |
| 7/15/2013 | | 25160 | 8039 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.6 U | 0.00E+00 | 7.61E-04 | 117.21 |
| 7/15/2013 | Dup | 25160 | 8039 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.7 U | 0.00E+00 | 7.43E-04 | - |
| Pulse -off period | July 15, 2013 to September 9, 2013 | | | | | | | | | | | | | | | |
| 9/9/2013 | | 25162 | 8040 | 160 | 2.0 U | 0.00E+00 | 2.0 U | 0.00E+00 | 2.0 U | 0.00E+00 | 20 U | 0.00E+00 | 8.0 U | 0.00E+00 | 1.86E-03 | 117.21 |
| 11/18/2013 | | 26825 | 8372 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.6 U | 0.00E+00 | 2.66E-04 | 117.30 |
| Pulse -off period | November 18, 2013 to January 15, 2014 | | | | | | | | | | | | | | | |
| 1/15/2014 | | 28218 | 8651 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 7.44E-04 | 117.51 |
| 3/14/2014 | | 29432 | 8894 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 5.75E-05 | 117.52 |
| 3/14/2014 | Dup | 29432 | 8894 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 5.0 U | 0.00E+00 | 8.30E-05 | - |
| Pulse -off period | March 14, 2014 to May 15, 2014 | | | | | | | | | | | | | | | |
| 5/15/2014 | | 29914 | 8990 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 25 | 3.60E-05 | 11 U | 0.00E+00 | 1.21E-03 | 117.64 |
| 7/23/2014 | | 31567 | 9321 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.6 U | 0.00E+00 | 4.64E-04 | 117.79 |
| Pulse -off period | July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | |
| 9/16/2014 | | 32432 | 9494 | 160 | 2.1 U | 0.00E+00 | 2.1 U | 0.00E+00 | 2.1 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 1.51E-03 | 118.05 |
| 11/14/2014 | | 33847 | 9777 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.6 U | 0.00E+00 | 2.31E-04 | 118.12 |
| Pulse -off period | November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | |
| 1/9/2015 | | 33855 | 9778 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.8 U | 0.00E+00 | 9.45E-04 | 118.12 |
| 3/13/2015 | | 35189 | 10045 | 160 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 13 U | 0.00E+00 | 5.0 U | 0.00E+00 | 9.70E-05 | 118.15 |
| Pulse -off period | March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | |
| 5/15/2015 | | 35194 | 10046 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.06E-03 | 118.15 |
| 7/16/2015 | | 36677 | 10343 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.6 U | 0.00E+00 | 3.62E-04 | 118.25 |
| Pulse -off period | July 16, 2015 to September 22, 2015 | | | | | | | | | | | | | | | |
| 9/22/2015 | | 36680 | 10343 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.5 U | 0.00E+00 | 2.25E-03 | 118.26 |
| 11/20/2015 | | 38094 | 10626 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.6 U | 0.00E+00 | 2.65E-04 | 118.33 |
| Pulse -off period | November 20, 2015 to January 19, 2016 | | | | | | | | | | | | | | | |
| 1/19/2016 | | 38101 | 10627 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.3 U | 0.00E+00 | 1.18E-03 | 118.33 |
| 3/18/2016 | | 39377 | 10883 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.5 U | 0.00E+00 | 1.24E-04 | 118.36 |

Notes:

Mass removal rate = (flow rate in scfm)(concentration in ppmv)(60)(MW) / (387*1000000)

"U" indicates non-detection at the specified reporting limit; for ND compounds, zero is used in mass removal calculations.

MW molecular weight (values from the U.S. National Library of Medicine)

SCFM standard cubic feet per minute

J Indicates estimated value.

B The analyte was detected in the method, field and/or trip blank.

When a duplicate sample was collected, the original sample results are used in the mass calculations.

Table 4.3
Cell 3 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 3 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 3 Run Time (hr) | SVE Flow Rate (scfm) | 1,1,1-Trichloroethane | | 1,1,2-Trichloroethane | | 1,1-Dichloroethane | | 1,2-Dichloroethane | | 1,1-Dichloroethene | | cis-1,2-Dichloroethene | | trans-1,2-Dichloroethene | | Tetrachloroethene | |
|------------|-------------|-------------------|----------------------|----------------------|-----------------------|---------------------------|-----------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|------------------------|---------------------------|--------------------------|---------------------------|-------------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| 12/14/2009 | | 181 | 60 | 140 | 94000 | 2.72E-01 | 270 U | 0.00E+00 | 1100 | 2.36E-03 | 270 U | 0.00E+00 | 2300 | 4.84E-03 | 8100 | 1.70E-02 | 270 U | 0.00E+00 | 750 | 2.70E-03 |
| 12/16/2009 | | 229 | 76 | 150 | 46000 | 1.43E-01 | 110 U | 0.00E+00 | 710 | 1.63E-03 | 110 U | 0.00E+00 | 1100 | 2.48E-03 | 5500 | 1.24E-02 | 110 U | 0.00E+00 | 400 | 1.54E-03 |
| 1/5/2010 | | 707 | 236 | 140 | 42000 | 1.22E-01 | 150 U | 0.00E+00 | 290 | 6.23E-04 | 150 U | 0.00E+00 | 980 | 2.06E-03 | 1500 | 3.16E-03 | 150 U | 0.00E+00 | 240 | 8.64E-04 |
| 1/21/2010 | | 1084 | 361 | 150 | 15000 | 4.65E-02 | 42 U | 0.00E+00 | 260 | 5.98E-04 | 42 U | 0.00E+00 | 280 | 6.31E-04 | 1600 | 3.61E-03 | 42 U | 0.00E+00 | 170 | 6.56E-04 |
| 1/21/2010 | Dup | 1084 | 361 | 150 | 16000 | 4.96E-02 | 43 U | 0.00E+00 | 280 | 6.44E-04 | 43 U | 0.00E+00 | 290 | 6.54E-04 | 1700 | 3.83E-03 | 43 U | 0.00E+00 | 170 | 6.56E-04 |
| 2/24/2010 | | 1893 | 631 | 150 | 11000 | 3.41E-02 | 28 U | 0.00E+00 | 240 | 5.52E-04 | 28 U | 0.00E+00 | 280 | 6.31E-04 | 1100 | 2.48E-03 | 28 U | 0.00E+00 | 140 | 5.40E-04 |
| 3/15/2010 | | 2345 | 782 | 140 | 20000 | 5.79E-02 | 21 U | 0.00E+00 | 400 | 8.59E-04 | 21 U | 0.00E+00 | 510 | 1.07E-03 | 1900 | 4.00E-03 | 21 U | 0.00E+00 | 280 | 1.01E-03 |
| 4/14/2010 | | 2804 | 935 | 150 | 31000 | 9.62E-02 | 100 U | 0.00E+00 | 380 | 8.75E-04 | 100 U | 0.00E+00 | 1100 | 2.48E-03 | 1200 | 2.71E-03 | 100 U | 0.00E+00 | 820 | 3.16E-03 |
| 5/13/2010 | | 3495 | 1165 | 140 | 8300 | 2.40E-02 | 12 U | 0.00E+00 | 220 | 4.73E-04 | 12 U | 0.00E+00 | 190 | 4.00E-04 | 960 | 2.02E-03 | 12 U | 0.00E+00 | 200 | 7.20E-04 |
| 6/21/2010 | | 4430 | 1477 | 108 | 7200 | 1.61E-02 | 21 U | 0.00E+00 | 220 | 3.65E-04 | 21 U | 0.00E+00 | 150 | 2.43E-04 | 660 | 1.07E-03 | 21 U | 0.00E+00 | 160 | 4.44E-04 |
| 7/21/2010 | | 5058 | 1686 | 140 | 6100 | 1.77E-02 | 20 U | 0.00E+00 | 120 | 2.58E-04 | 20 U | 0.00E+00 | 130 | 2.74E-04 | 460 | 9.68E-04 | 20 U | 0.00E+00 | 120 | 4.32E-04 |
| 8/23/2010 | | 5784 | 1928 | 0 | 8000 | 0.00E+00 | 20 U | 0.00E+00 | 200 | 0.00E+00 | 20 U | 0.00E+00 | 120 | 0.00E+00 | 490 | 0.00E+00 | 20 U | 0.00E+00 | 220 | 0.00E+00 |
| 9/23/2010 | | 6523 | 2174 | 145 | 6600 | 1.98E-02 | 11 U | 0.00E+00 | 140 | 3.11E-04 | 11 U | 0.00E+00 | 140 | 3.05E-04 | 440 | 9.59E-04 | 11 U | 0.00E+00 | 160 | 5.96E-04 |
| 10/22/2010 | | 7219 | 2406 | 140 | 3700 | 1.07E-02 | 14 U | 0.00E+00 | 91 | 1.95E-04 | 14 U | 0.00E+00 | 66 | 1.39E-04 | 210 | 4.42E-04 | 14 U | 0.00E+00 | 110 | 3.96E-04 |
| 11/15/2010 | | 7794 | 2598 | 140 | 4600 | 1.33E-02 | 15 U | 0.00E+00 | 120 | 2.58E-04 | 15 U | 0.00E+00 | 64 | 1.35E-04 | 170 | 3.58E-04 | 15 U | 0.00E+00 | 88 | 3.17E-04 |
| 12/22/2010 | | 8508 | 2777 | 150 | 5600 | 1.74E-02 | 20 U | 0.00E+00 | 150 | 3.45E-04 | 20 U | 0.00E+00 | 120 | 2.71E-04 | 330 | 7.44E-04 | 20 U | 0.00E+00 | 56 | 2.16E-04 |
| 1/24/2011 | | 9302 | 2975 | 170 | 2200 | 7.74E-03 | 8.3 U | 0.00E+00 | 130 | 3.39E-04 | 8.3 U | 0.00E+00 | 27 | 6.90E-05 | 200 | 5.11E-04 | 8.3 U | 0.00E+00 | 35 | 1.53E-04 |
| 2/25/2011 | | 10071 | 3167 | 165 | 1300 | 4.44E-03 | 4.0 U | 0.00E+00 | 45 | 1.14E-04 | 4.0 U | 0.00E+00 | 25 | 6.20E-05 | 72 | 1.79E-04 | 4.0 U | 0.00E+00 | 28 | 1.19E-04 |
| 3/18/2011 | | 10573 | 3293 | 165 | 360 | 1.23E-03 | 1.3 U | 0.00E+00 | 24 | 6.08E-05 | 1.3 U | 0.00E+00 | 5.4 | 1.34E-05 | 35 | 8.68E-05 | 1.3 U | 0.00E+00 | 13 | 5.51E-05 |
| 4/15/2011 | | 11241 | 3460 | 160 | 160 J,B | 5.29E-04 | 1.0 U | 0.00E+00 | 17 | 4.17E-05 | 1.0 U | 0.00E+00 | 2.8 | 6.73E-06 | 28 | 6.73E-05 | 1.0 U | 0.00E+00 | 15 | 6.17E-05 |
| 5/19/2011 | | 12061 | 3665 | 160 | 64 | 2.12E-04 | 1.2 U | 0.00E+00 | 10 | 2.45E-05 | 1.2 U | 0.00E+00 | 1.4 | 3.37E-06 | 12 | 2.89E-05 | 1.2 U | 0.00E+00 | 9.6 | 3.95E-05 |
| 6/16/2011 | | 12722 | 3830 | 170 | 160 | 5.63E-04 | 1.2 U | 0.00E+00 | 280 | 7.30E-04 | 1.2 U | 0.00E+00 | 2.5 | 6.39E-06 | 34 | 8.69E-05 | 1.2 U | 0.00E+00 | 61 | 2.67E-04 |
| 7/15/2011 | | 13417 | 4472 | 170 | 190 | 6.68E-04 | 1.2 U | 0.00E+00 | 8.3 | 2.16E-05 | 1.2 U | 0.00E+00 | 2.8 | 7.15E-06 | 23 | 5.88E-05 | 1.2 U | 0.00E+00 | 22 | 9.62E-05 |
| 8/22/2011 | | 14324 | 4775 | 170 | 1600 | 5.63E-03 | 4.3 U | 0.00E+00 | 19 | 4.96E-05 | 4.3 U | 0.00E+00 | 21 | 5.37E-05 | 130 | 3.32E-04 | 4.3 U | 0.00E+00 | 39 | 1.70E-04 |
| 9/15/2011 | | 14905 | 4968 | 170 | 800 | 2.81E-03 | 3.7 U | 0.00E+00 | 9.5 | 2.48E-05 | 3.7 U | 0.00E+00 | 12 | 3.07E-05 | 62 | 1.58E-04 | 3.7 U | 0.00E+00 | 24 | 1.05E-04 |
| 10/14/2011 | | 15598 | 5199 | 160 | 750 | 2.48E-03 | 3.0 U | 0.00E+00 | 10 | 2.45E-05 | 3.0 U | 0.00E+00 | 13 | 3.13E-05 | 37 | 8.90E-05 | 3.0 U | 0.00E+00 | 15 | 6.17E-05 |
| 11/21/2011 | | 16510 | 5503 | 170 | 380 | 1.34E-03 | 1.4 U | 0.00E+00 | 6.6 | 1.72E-05 | 1.4 U | 0.00E+00 | 5.6 | 1.43E-05 | 24 | 6.13E-05 | 1.4 U | 0.00E+00 | 7.9 | 3.45E-05 |
| 12/14/2011 | | 17010 | 5670 | 170 | 830 | 2.92E-03 | 3.5 U | 0.00E+00 | 8.7 | 2.27E-05 | 3.5 U | 0.00E+00 | 70 | 1.79E-04 | 33 | 8.43E-05 | 3.5 U | 0.00E+00 | 6.9 | 3.02E-05 |
| 1/19/2012 | | 17923 | 5974 | 170 | 800 | 2.81E-03 | 3.0 U | 0.00E+00 | 12 | 3.13E-05 | 3.0 U | 0.00E+00 | 13 | 3.32E-05 | 33 | 8.43E-05 | 3.0 U | 0.00E+00 | 6.4 | 2.80E-05 |
| 2/15/2012 | | 18566 | 6189 | 170 | 1600 | 5.63E-03 | | | | | | | | | | | | | | |

Table 4.3
Cell 3 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 3 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 3 Run Time (hr) | SVE Flow Rate (scfm) | Trichloroethene | | Vinyl chloride | | Methylene Chloride | | Carbon Tetrachloride | | Chloroform | | Chloroethane | | Benzene | | Toluene | |
|------------|-------------|-------------------|----------------------|----------------------|-----------------|---------------------------|----------------|---------------------------|--------------------|---------------------------|----------------------|---------------------------|-------------|---------------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| 12/14/2009 | Dup | 181 | 60 | 140 | 1000 | 2.85E-03 | 270 U | 0.00E+00 | 270 U | 0.00E+00 | 270 U | 0.00E+00 | 270 U | 0.00E+00 | 270 U | 0.00E+00 | 270 U | 0.00E+00 | 270 U | 0.00E+00 |
| 12/16/2009 | | 229 | 76 | 150 | 550 | 1.68E-03 | 110 U | 0.00E+00 | 110 U | 0.00E+00 | 110 U | 0.00E+00 | 110 U | 0.00E+00 | 110 U | 0.00E+00 | 110 U | 0.00E+00 | 110 U | 0.00E+00 |
| 1/5/2010 | | 707 | 236 | 140 | 250 | 7.13E-04 | 150 U | 0.00E+00 | 220 | 4.06E-04 | 150 U | 0.00E+00 | 150 U | 0.00E+00 | 150 U | 0.00E+00 | 150 U | 0.00E+00 | 150 U | 0.00E+00 |
| 1/21/2010 | | 1084 | 361 | 150 | 140 | 4.28E-04 | 42 U | 0.00E+00 | 42 U | 0.00E+00 | 43 U | 0.00E+00 | 43 U | 0.00E+00 | 43 U | 0.00E+00 | 42 U | 0.00E+00 | 42 U | 0.00E+00 |
| 1/21/2010 | | 1084 | 361 | 150 | 140 | 4.28E-04 | 43 U | 0.00E+00 | 43 U | 0.00E+00 | 43 U | 0.00E+00 | 43 U | 0.00E+00 | 43 U | 0.00E+00 | 43 U | 0.00E+00 | 43 U | 0.00E+00 |
| 2/24/2010 | | 1893 | 631 | 150 | 66 | 2.02E-04 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 28 U | 0.00E+00 |
| 3/15/2010 | | 2345 | 782 | 140 | 120 | 3.42E-04 | 51 | 6.92E-05 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 |
| 4/14/2010 | | 2804 | 935 | 150 | 190 | 5.81E-04 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 100 U | 0.00E+00 |
| 5/13/2010 | | 3495 | 1165 | 140 | 43 | 1.23E-04 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 |
| 6/21/2010 | | 4430 | 1477 | 108 | 55 | 1.21E-04 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 |
| 7/21/2010 | | 5058 | 1686 | 140 | 44 | 1.25E-04 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 |
| 8/23/2010 | | 5784 | 1928 | 0 | 66 | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 |
| 9/23/2010 | | 6523 | 2174 | 145 | 50 | 1.48E-04 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 |
| 10/22/2010 | | 7219 | 2406 | 140 | 31 | 8.84E-05 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 |
| 11/15/2010 | | 7794 | 2598 | 140 | 29 | 8.27E-05 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 |
| 12/22/2010 | | 8508 | 2777 | 150 | 21 | 6.42E-05 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 |
| 1/24/2011 | | 9302 | 2975 | 170 | 17 | 5.89E-05 | 8.3 U | 0.00E+00 | 8.3 U | 0.00E+00 | 8.3 U | 0.00E+00 | 8.3 U | 0.00E+00 | 8.3 U | 0.00E+00 | 8.3 U | 0.00E+00 | 8.3 U | 0.00E+00 |
| 2/25/2011 | | 10071 | 3167 | 165 | 16 | 5.38E-05 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 16 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 |
| 3/18/2011 | | 10573 | 3293 | 165 | 5.9 | 1.98E-05 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 5.4 U | 0.00E+00 | 1.9 | 3.80E-06 | 1.3 U | 0.00E+00 |
| 4/15/2011 | | 11241 | 3460 | 160 | 7.7 | 2.51E-05 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 4.1 U | 0.00E+00 | 2.6 | 5.04E-06 | 1.0 U | 0.00E+00 |
| 5/19/2011 | | 12061 | 3665 | 160 | 6.9 | 2.25E-05 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.8 U | 0.00E+00 | 1.9 | 3.68E-06 | 1.2 U | 0.00E+00 |
| 6/16/2011 | | 12722 | 3830 | 170 | 9.8 | 3.39E-05 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.6 | 3.29E-06 | 1.2 U | 0.00E+00 |
| 7/15/2011 | | 13417 | 4472 | 170 | 9.3 | 3.22E-05 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.8 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 8/22/2011 | | 14324 | 4775 | 170 | 21 | 7.27E-05 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | 17 U | 0.00E+00 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 |
| 9/15/2011 | | 14905 | 4968 | 170 | 14 | 4.85E-05 | 3.7 U | 0.00E+00 | 3.7 U | 0.00E+00 | 3.7 U | 0.00E+00 | 3.7 U | 0.00E+00 | 15 U | 0.00E+00 | 4.1 | 8.44E-06 | 3.7 U | 0.00E+00 |
| 10/14/2011 | | 15598 | 5199 | 160 | 13 | 4.24E-05 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 12 U | 0.00E+00 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 |
| 11/21/2011 | | 16510 | 5503 | 170 | 9.2 | 3.19E-05 | 1.4 U | 0.00E+00 | 1.4 UJ | 0.00E+00 | 1.4 U | 0.00E+00 | 1.4 U | 0.00E+00 | 5.5 U | 0.00E+00 | 1.4 U | 0.00E+00 | 1.4 U | 0.00E+00 |
| 12/14/2011 | | 17010 | 5670 | 170 | 22 | 7.62E-05 | 3.5 U | 0.00E+00 | 35 U | 0.00E+00 | 3.5 U | 0.00E+00 | 3.5 U | 0.00E+00 | 14 U | 0.00E+00 | 3.5 U | 0.00E+00 | 3.5 U | 0.00E+00 |
| 1/19/2012 | | 17923 | 5974 | 170 | 12 | 4.16E-05 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 12 U | 0.00E+00 | 3.0 U | 0.00E+00 | | |

Table 4.3
Cell 3 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 3 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 3 Run Time (hr) | SVE Flow Rate (scfm) | Ethylbenzene | | m&p-Xylenes | | o-Xylenes | | Acetone | | Methyl Ethyl Ketone (MEK) | | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) |
|------------|-------------|-------------------|----------------------|----------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | | |
| 12/14/2009 | Dup | 181 | 60 | 140 | 270 U | 0.00E+00 | 1600 | 3.69E-03 | 510 | 1.18E-03 | 1100 U | 0.00E+00 | 270 U | 0.00E+00 | 3.07E-01 | 18.51 |
| 12/16/2009 | | 229 | 76 | 150 | 110 U | 0.00E+00 | 540 | 1.33E-03 | 240 | 5.93E-04 | 590 | 7.97E-04 | 110 U | 0.00E+00 | 1.65E-01 | 21.16 |
| 1/5/2010 | | 707 | 236 | 140 | 150 U | 0.00E+00 | 150 U | 0.00E+00 | 150 U | 0.00E+00 | 590 U | 0.00E+00 | 150 U | 0.00E+00 | 1.29E-01 | 41.78 |
| 1/21/2010 | | 1084 | 361 | 150 | 42 U | 0.00E+00 | 42 U | 0.00E+00 | 42 U | 0.00E+00 | 170 U | 0.00E+00 | 42 U | 0.00E+00 | 5.25E-02 | 48.37 |
| 1/21/2010 | | 1084 | 361 | 150 | 43 U | 0.00E+00 | 43 U | 0.00E+00 | 43 U | 0.00E+00 | 170 U | 0.00E+00 | 43 U | 0.00E+00 | 5.59E-02 | 48.80 |
| 2/24/2010 | | 1893 | 631 | 150 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 110 U | 0.00E+00 | 28 U | 0.00E+00 | 3.85E-02 | 58.76 |
| 3/15/2010 | | 2345 | 782 | 140 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 83 U | 0.00E+00 | 21 U | 0.00E+00 | 6.53E-02 | 68.60 |
| 4/14/2010 | | 2804 | 935 | 150 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 420 U | 0.00E+00 | 100 U | 0.00E+00 | 1.06E-01 | 84.81 |
| 5/13/2010 | | 3495 | 1165 | 140 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 48 U | 0.00E+00 | 12 U | 0.00E+00 | 2.78E-02 | 91.21 |
| 6/21/2010 | | 4430 | 1477 | 108 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 21 U | 0.00E+00 | 83 U | 0.00E+00 | 21 U | 0.00E+00 | 1.83E-02 | 96.92 |
| 7/21/2010 | | 5058 | 1686 | 140 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 79 U | 0.00E+00 | 20 U | 0.00E+00 | 1.97E-02 | 101.05 |
| 8/23/2010 | | 5784 | 1928 | 0 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 81 U | 0.00E+00 | 20 U | 0.00E+00 | 0.00E+00 | 101.05 |
| 9/23/2010 | | 6523 | 2174 | 145 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 43 U | 0.00E+00 | 11 U | 0.00E+00 | 2.21E-02 | 106.49 |
| 10/22/2010 | | 7219 | 2406 | 140 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 14 U | 0.00E+00 | 55 U | 0.00E+00 | 14 U | 0.00E+00 | 1.20E-02 | 109.27 |
| 11/15/2010 | | 7794 | 2598 | 140 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 59 U | 0.00E+00 | 15 U | 0.00E+00 | 1.45E-02 | 112.05 |
| 12/22/2010 | | 8508 | 2777 | 150 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 82 U | 0.00E+00 | 20 U | 0.00E+00 | 1.90E-02 | 115.44 |
| 1/24/2011 | | 9302 | 2975 | 170 | 8.3 U | 0.00E+00 | 8.3 U | 0.00E+00 | 8.3 U | 0.00E+00 | 33 U | 0.00E+00 | 8.3 U | 0.00E+00 | 8.87E-03 | 117.20 |
| 2/25/2011 | | 10071 | 3167 | 165 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 4.0 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 4.96E-03 | 118.15 |
| 3/18/2011 | | 10573 | 3293 | 165 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 10 | 1.49E-05 | 5.4 U | 0.00E+00 | 1.48E-03 | 118.34 |
| 4/15/2011 | | 11241 | 3460 | 160 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 1.0 U | 0.00E+00 | 7.3 J,B | 1.05E-05 | 4.1 U | 0.00E+00 | 7.48E-04 | 118.47 |
| 5/19/2011 | | 12061 | 3665 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.8 U | 0.00E+00 | 4.8 U | 0.00E+00 | 3.34E-04 | 118.53 |
| 6/16/2011 | | 12722 | 3830 | 170 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 6.8 | 1.04E-05 | 4.7 U | 0.00E+00 | 1.70E-03 | 118.81 |
| 7/15/2011 | | 13417 | 4472 | 170 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 7.7 | 1.18E-05 | 4.8 U | 0.00E+00 | 8.96E-04 | 119.39 |
| 8/22/2011 | | 14324 | 4775 | 170 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | 4.3 U | 0.00E+00 | 17 U | 0.00E+00 | 17 U | 0.00E+00 | 6.30E-03 | 121.30 |
| 9/15/2011 | | 14905 | 4968 | 170 | 3.7 U | 0.00E+00 | 3.7 U | 0.00E+00 | 3.7 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 3.19E-03 | 121.91 |
| 10/14/2011 | | 15598 | 5199 | 160 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 2.73E-03 | 122.54 |
| 11/21/2011 | | 16510 | 5503 | 170 | 1.4 U | 0.00E+00 | 1.4 U | 0.00E+00 | 1.4 U | 0.00E+00 | 5.5 U,J | 0.00E+00 | 5.5 U | 0.00E+00 | 1.50E-03 | 123.00 |
| 12/14/2011 | | 17010 | 5670 | 170 | 3.5 U | 0.00E+00 | 3.5 U | 0.00E+00 | 3.5 U | 0.00E+00 | 380 J | 5.82E-04 | 58 | 1.10E-04 | 4.00E-03 | 123.67 |
| 1/19/2012 | | 17923 | 5974 | 170 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 3.0 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 3.03E-03 | 124.59 |
| 2/15/2012 | | 18566 | 6189 | 170 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 18 U | 0.00E+00 | 18 U | 0.00E+00 | 6.70E-03 | 126.03 |
| 3/15/2012 | | 19262 | 6421 | 170 | 5.1 U | 0.00E+00 | 5.1 U | 0.00E+00 | 5.1 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 6.04E-03 | 127.43 |
| 4/19/2012 | | 20102 | 6701 | 160 | 1.8 U | 0.00E+00 | 1.8 U | 0.00E+00 | 1.8 U | 0.00E+00 | 7.3 U | 0.00E+00 | 7.3 U | 0.00E+00 | 2.13E-03 | 128.02 |
| 5/16/2012 | | 20748 | 6916 | 160 | 0.80 U | 0.00E+00 | 0.80 U | 0.00E+00 | 0.80 U | 0.00E+00 | 3.2 U | 0.00E+00 | 3.2 U | 0.00E+00 | 1.16E-03 | 128.27 |

Table 4.3
Cell 3 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 3 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 3 Run Time (hr) | SVE Flow Rate (scfm) | 1,1,1-Trichloroethane | | 1,1,2-Trichloroethane | | 1,1-Dichloroethane | | 1,2-Dichloroethane | | 1,1-Dichloroethene | | cis-1,2-Dichloroethene | | trans-1,2-Dichloroethene | | Tetrachloroethene | |
|--|-------------|-------------------|----------------------|----------------------|-----------------------|---------------------------|-----------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|------------------------|---------------------------|--------------------------|---------------------------|-------------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| Pulse -off period June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | | | | | |
| 8/14/2012 | | 21282 | 7094 | 160 | 1200 | 3.97E-03 | 4.7 U | 0.00E+00 | 20 | 4.91E-05 | 4.7 U | 0.00E+00 | 17 | 4.09E-05 | 8.4 | 2.02E-05 | 4.7 U | 0.00E+00 | 26 | 1.07E-04 |
| 9/17/2012 | | 21952 | 7317 | 160 | 5000 | 1.65E-02 | 16 U | 0.00E+00 | 38 | 9.33E-05 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 130 | 3.13E-04 | 16 U | 0.00E+00 | 100 | 4.11E-04 |
| Pulse -off period September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | | | | | | |
| 11/15/2012 | | 21959 | 7320 | 160 | 640 | 2.12E-03 | 2.1 U | 0.00E+00 | 130 | 3.19E-04 | 2.1 U | 0.00E+00 | 22 | 5.29E-05 | 18 | 4.33E-05 | 2.1 U | 0.00E+00 | 18 | 7.40E-05 |
| 12/14/2012 | | 22554 | 7518 | 170 | 1100 | 3.87E-03 | 4.6 U | 0.00E+00 | 17 J | 4.43E-05 | 4.6 U | 0.00E+00 | 15 | 3.83E-05 | 70 J | 1.79E-04 | 4.6 U | 0.00E+00 | 7.1 J | 3.10E-05 |
| 12/14/2012 | Dup | 22554 | 7518 | 170 | 1100 J | 3.87E-03 | 4.5 U | 0.00E+00 | 25 J | 6.52E-05 | 4.5 U | 0.00E+00 | 17 J | 4.34E-05 | 36 J | 9.20E-05 | 4.5 U | 0.00E+00 | 49 J | 2.14E-04 |
| Pulse -off period December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | | | | | | |
| 2/26/2013 | | 22556 | 7519 | 160 | 640 | 2.12E-03 | 2.4 U | 0.00E+00 | 12 | 2.95E-05 | 2.4 U | 0.00E+00 | 8 | 1.92E-05 | 23 | 5.53E-05 | 2.4 U | 0.00E+00 | 15 | 6.17E-05 |
| 4/11/2013 | | 23581 | 8134 | 160 | 180 | 5.96E-04 | 1.2 U | 0.00E+00 | 7 | 1.72E-05 | 1.2 U | 0.00E+00 | 2.8 | 6.73E-06 | 28 | 6.73E-05 | 1.2 U | 0.00E+00 | 4.6 | 1.89E-05 |
| Pulse -off period April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | | | | | | |
| 5/10/2013 | | 23583 | 8135 | 160 | 200 | 6.62E-04 | 1.1 U | 0.00E+00 | 5.5 | 1.35E-05 | 1.1 U | 0.00E+00 | 3.3 | 7.94E-06 | 22 | 5.29E-05 | 1.1 U | 0.00E+00 | 4.4 | 1.81E-05 |
| 7/15/2013 | | 25160 | 9082 | 160 | 64 | 2.12E-04 | 1.2 U | 0.00E+00 | 3.6 | 8.84E-06 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.9 | 4.57E-06 | 1.2 U | 0.00E+00 | 14 | 5.76E-05 |
| Pulse -off period July 15, 2013 to September 9, 2013 | | | | | | | | | | | | | | | | | | | | |
| 9/9/2013 | | 25162 | 9083 | 160 | 390 | 1.29E-03 | 1.7 U | 0.00E+00 | 5.6 | 1.37E-05 | 1.7 U | 0.00E+00 | 3 | 9.93E-06 | 2 | 4.81E-06 | 1.7 U | 0.00E+00 | 21 | 8.64E-05 |
| 11/18/2013 | | 26825 | 10081 | 160 | 350 | 1.16E-03 | 1.2 U | 0.00E+00 | 8.2 | 2.01E-05 | 1.2 U | 0.00E+00 | 6.6 | 2.18E-05 | 45 | 1.08E-04 | 1.2 U | 0.00E+00 | 5.7 | 2.34E-05 |
| Pulse -off period November 18, 2013 to January 15, 2014 | | | | | | | | | | | | | | | | | | | | |
| 1/15/2014 | | 28218 | 10916 | 160 | 240 | 7.94E-04 | 1.2 U | 0.00E+00 | 5 | 1.23E-05 | 1.2 U | 0.00E+00 | 4.1 | 1.36E-05 | 16 | 3.85E-05 | 1.2 U | 0.00E+00 | 18 | 7.40E-05 |
| 3/14/2014 | | 29432 | 11645 | 160 | 72 | 2.38E-04 | 1.2 U | 0.00E+00 | 8.7 | 2.14E-05 | 1.2 U | 0.00E+00 | 2.4 | 7.94E-06 | 6.4 | 1.54E-05 | 1.2 U | 0.00E+00 | 9.5 | 3.91E-05 |
| Pulse -off period March 14, 2014 to May 15, 2014 | | | | | | | | | | | | | | | | | | | | |
| 5/15/2014 | | 29914 | 11934 | 160 | 770 | 2.55E-03 | 2.3 U | 0.00E+00 | 15 | 3.68E-05 | 2.3 U | 0.00E+00 | 12 | 3.97E-05 | 86 | 2.07E-04 | 2.3 U | 0.00E+00 | 6.9 | 2.84E-05 |
| 7/23/2014 | | 31567 | 12926 | 160 | 130 | 4.30E-04 | 1.4 U | 0.00E+00 | 5 | 1.23E-05 | 1.4 U | 0.00E+00 | 1.4 | 4.63E-06 | 10 | 2.40E-05 | 1.4 U | 0.00E+00 | 10 | 4.11E-05 |
| Pulse -off period July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | | | | | | |
| 9/16/2014 | | 32432 | 13099 | 160 | 390 | 1.29E-03 | 2.4 U | 0.00E+00 | 15 | 3.68E-05 | 2.4 U | 0.00E+00 | 3 | 7.21E-06 | 8.4 | 2.02E-05 | 2.4 U | 0.00E+00 | 17 | 6.99E-05 |
| 11/14/2014 | | 33847 | 13948 | 160 | 180 | 5.96E-04 | 1.2 U | 0.00E+00 | 5.2 | 1.28E-05 | 1.2 U | 0.00E+00 | 3 | 9.93E-06 | 25 | 6.01E-05 | 1.2 U | 0.00E+00 | 18 | 7.40E-05 |
| Pulse -off period November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | | | | | | |
| 1/9/2015 | | 33855 | 13949 | 160 | 220 | 7.28E-04 | 1.1 U | 0.00E+00 | 4.7 | 1.15E-05 | 1.1 U | 0.00E+00 | 2.2 | 5.29E-06 | 18 | 4.33E-05 | 1.1 U | 0.00E+00 | 11 | 4.52E-05 |
| 3/13/2015 | | 35189 | 14750 | 160 | 200 | 6.62E-04 | 1.2 U | 0.00E+00 | 4.4 | 1.08E-05 | 1.2 U | 0.00E+00 | 3.1 | 1.03E-05 | 14 | 3.37E-05 | 1.2 U | 0.00E+00 | 4.2 | 1.73E-05 |
| Pulse -off period March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | | | | | | |
| 5/15/2015 | | 35194 | 14751 | 160 | 300 | 9.93E-04 | 1.2 U | 0.00E+00 | 5.6 | 1.37E-05 | 1.2 U | 0.00E+00 | 3.1 | 7.45E-06 | 10 | 2.40E-05 | 1.2 U | 0.00E+00 | 8.1 | 3.33E-05 |
| 7/16/2015 | | 36677 | 15641 | 160 | 180 | 5.96E-04 | 1.2 U | 0.00E+00 | 6 | | | | | | | | | | | |

Table 4.3
Cell 3 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 3 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 3 Run Time (hr) | SVE Flow Rate (scfm) | Trichloroethene | | Vinyl chloride | | Methylene Chloride | | Carbon Tetrachloride | | Chloroform | | Chloroethane | | Benzene | | Toluene | |
|--|-------------|-------------------|----------------------|----------------------|-----------------|---------------------------|----------------|---------------------------|--------------------|---------------------------|----------------------|---------------------------|-------------|---------------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| Pulse -off period June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | | | | | |
| 8/14/2012 | | 21282 | 7094 | 160 | 25 | 8.15E-05 | 4.7 U | 0.00E+00 | 47 U | 0.00E+00 | 4.7 U | 0.00E+00 | 4.7 U | 0.00E+00 | 19 U | 0.00E+00 | 4.7 U | 0.00E+00 | 4.7 U | 0.00E+00 |
| 9/17/2012 | | 21952 | 7317 | 160 | 180 | 5.87E-04 | 16 U | 0.00E+00 | 160 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 65 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 |
| Pulse -off period September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | | | | | | |
| 11/15/2012 | | 21959 | 7320 | 160 | 39 | 1.27E-04 | 2.1 U | 0.00E+00 | 21 U | 0.00E+00 | 2.1 U | 0.00E+00 | 2.1 U | 0.00E+00 | 8.5 U | 0.00E+00 | 2.1 U | 0.00E+00 | 2.1 U | 0.00E+00 |
| 12/14/2012 | | 22554 | 7518 | 170 | 90 J | 3.12E-04 | 4.6 U | 0.00E+00 | 46 U | 0.00E+00 | 4.6 U | 0.00E+00 | 4.6 U | 0.00E+00 | 18 U | 0.00E+00 | 4.6 U | 0.00E+00 | 4.6 U | 0.00E+00 |
| 12/14/2012 | Dup | 22554 | 7518 | 170 | 52 J | 1.80E-04 | 4.5 U | 0.00E+00 | 45 U | 0.00E+00 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 18 U | 0.00E+00 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 |
| Pulse -off period December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | | | | | | |
| 2/26/2013 | | 22556 | 7519 | 160 | 36 | 1.17E-04 | 2.4 U | 0.00E+00 | 24 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 9.5 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 |
| 4/11/2013 | | 23581 | 8134 | 160 | 15 | 4.89E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | | | | | | |
| 5/10/2013 | | 23583 | 8135 | 160 | 13 | 4.24E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.3 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 7/15/2013 | | 25160 | 9082 | 160 | 10 | 3.26E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period July 15, 2013 to September 9, 2013 | | | | | | | | | | | | | | | | | | | | |
| 9/9/2013 | | 25162 | 9083 | 160 | 12 | 3.91E-05 | 1.7 U | 0.00E+00 | 17 U | 0.00E+00 | 1.7 U | 0.00E+00 | 1.7 U | 0.00E+00 | 6.8 U | 0.00E+00 | 1.7 U | 0.00E+00 | 1.7 U | 0.00E+00 |
| 11/18/2013 | | 26825 | 10081 | 160 | 14 | 4.56E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period November 18, 2013 to January 15, 2014 | | | | | | | | | | | | | | | | | | | | |
| 1/15/2014 | | 28218 | 10916 | 160 | 7.6 | 2.48E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 3/14/2014 | | 29432 | 11645 | 160 | 8.1 | 2.64E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.9 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period March 14, 2014 to May 15, 2014 | | | | | | | | | | | | | | | | | | | | |
| 5/15/2014 | | 29914 | 11934 | 160 | 20 | 6.52E-05 | 2.3 U | 0.00E+00 | 23 U | 0.00E+00 | 2.3 U | 0.00E+00 | 2.3 U | 0.00E+00 | 9.3 U | 0.00E+00 | 2.3 U | 0.00E+00 | 2.3 U | 0.00E+00 |
| 7/23/2014 | | 31567 | 12926 | 160 | 9 | 2.93E-05 | 1.4 U | 0.00E+00 | 14 U | 0.00E+00 | 1.4 U | 0.00E+00 | 1.4 U | 0.00E+00 | 5.6 U | 0.00E+00 | 1.4 U | 0.00E+00 | 1.4 U | 0.00E+00 |
| Pulse -off period July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | | | | | | |
| 9/16/2014 | | 32432 | 13099 | 160 | 14 | 4.56E-05 | 2.4 U | 0.00E+00 | 24 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 9.5 U | 0.00E+00 | 3 | 5.81E-06 | 2.4 U | 0.00E+00 |
| 11/14/2014 | | 33847 | 13948 | 160 | 6.2 | 2.02E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | | | | | | |
| 1/9/2015 | | 33855 | 13949 | 160 | 6 | 1.96E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.3 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 3/13/2015 | | 35189 | 14750 | 160 | 14 | 4.56E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | | | | | | |
| 5/15/2015 | | 35194 | 14751 | 160 | 10 | 3.26E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 7/16/2015 | | 36 | | | | | | | | | | | | | | | | | | |

Table 4.3
Cell 3 - Phase 1 SVE System Effluent Data
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 3 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 3 Run Time (hr) | SVE Flow Rate (scfm) | Ethylbenzene | | m&p-Xylenes | | o-Xylenes | | Acetone | | Methyl Ethyl Ketone (MEK) | | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) |
|-------------------|---|-------------------|----------------------|----------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | | |
| Pulse -off period | June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | |
| 8/14/2012 | | 21282 | 7094 | 160 | 4.7 U | 0.00E+00 | 4.7 U | 0.00E+00 | 4.7 U | 0.00E+00 | 47 U | 0.00E+00 | 19 U | 0.00E+00 | 4.27E-03 | 129.03 |
| 9/17/2012 | | 21952 | 7317 | 160 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 160 U | 0.00E+00 | 65 U | 0.00E+00 | 1.80E-02 | 133.04 |
| Pulse -off period | September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | |
| 11/15/2012 | | 21959 | 7320 | 160 | 2.1 U | 0.00E+00 | 2.1 U | 0.00E+00 | 2.1 U | 0.00E+00 | 21 U | 0.00E+00 | 8.5 U | 0.00E+00 | 2.73E-03 | 133.05 |
| 12/14/2012 | | 22554 | 7518 | 170 | 4.6 U | 0.00E+00 | 4.6 U | 0.00E+00 | 4.6 U | 0.00E+00 | 46 U | 0.00E+00 | 18 U | 0.00E+00 | 4.47E-03 | 133.94 |
| 12/14/2012 | Dup | 22554 | 7518 | 170 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 45 U | 0.00E+00 | 18 U | 0.00E+00 | 4.46E-03 | - |
| Pulse -off period | December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | |
| 2/26/2013 | | 22556 | 7519 | 160 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 24 U | 0.00E+00 | 9.5 U | 0.00E+00 | 2.40E-03 | 133.94 |
| 4/11/2013 | | 23581 | 8134 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.7 U | 0.00E+00 | 7.55E-04 | 134.40 |
| Pulse -off period | April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | |
| 5/10/2013 | | 23583 | 8135 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.3 U | 0.00E+00 | 7.97E-04 | 134.40 |
| 7/15/2013 | | 25160 | 9082 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.7 U | 0.00E+00 | 3.15E-04 | 134.70 |
| Pulse -off period | July 15, 2013 to September 9, 2013 | | | | | | | | | | | | | | | |
| 9/9/2013 | | 25162 | 9083 | 160 | 1.7 U | 0.00E+00 | 1.7 U | 0.00E+00 | 1.7 U | 0.00E+00 | 17 U | 0.00E+00 | 6.8 U | 0.00E+00 | 1.44E-03 | 134.70 |
| 11/18/2013 | | 26825 | 10081 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.38E-03 | 136.08 |
| Pulse -off period | November 18, 2013 to January 15, 2014 | | | | | | | | | | | | | | | |
| 1/15/2014 | | 28218 | 10916 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.6 U | 0.00E+00 | 9.57E-04 | 136.88 |
| 3/14/2014 | | 29432 | 11645 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.9 U | 0.00E+00 | 3.48E-04 | 137.13 |
| Pulse -off period | March 14, 2014 to May 15, 2014 | | | | | | | | | | | | | | | |
| 5/15/2014 | | 29914 | 11934 | 160 | 2.3 U | 0.00E+00 | 2.3 U | 0.00E+00 | 2.3 U | 0.00E+00 | 23 U | 0.00E+00 | 9.3 U | 0.00E+00 | 2.92E-03 | 137.98 |
| 7/23/2014 | | 31567 | 12926 | 160 | 1.4 U | 0.00E+00 | 1.4 U | 0.00E+00 | 1.4 U | 0.00E+00 | 14 U | 0.00E+00 | 5.6 U | 0.00E+00 | 5.42E-04 | 138.52 |
| Pulse -off period | July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | |
| 9/16/2014 | | 32432 | 13099 | 160 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 24 U | 0.00E+00 | 9.5 U | 0.00E+00 | 1.48E-03 | 138.77 |
| 11/14/2014 | | 33847 | 13948 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 | 1.73E-05 | 4.6 U | 0.00E+00 | 7.90E-04 | 139.44 |
| Pulse -off period | November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | |
| 1/9/2015 | | 33855 | 13949 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.3 U | 0.00E+00 | 8.53E-04 | 139.44 |
| 3/13/2015 | | 35189 | 14750 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.6 U | 0.00E+00 | 7.79E-04 | 140.07 |
| Pulse -off period | March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | |
| 5/15/2015 | | 35194 | 14751 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.10E-03 | 140.07 |
| 7/16/2015 | | 36677 | 15641 | 160 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.9 U | 0.00E+00 | 7.29E-04 | 140.72 |
| Pulse -off period | July 16, 2015 to September 22, 2015 | | | | | | | | | | | | | | | |
| 9/22/2015 | | 36680 | 15641 | 160 | 2.3 U | 0.00E+00 | 2.3 U | 0.00E+00 | 2.3 U | 0.00E+00 | 23 U | 0.00E+00 | 9.3 U | 0.00E+00 | 1.93E-03 | 140.72 |
| 11/20/2015 | | 38094 | 15924 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.5 U | 0.00E+00 | 3.11E-04 | 140.81 |
| Pulse -off period | November 20, 2015 to January 19, 2016 | | | | | | | | | | | | | | | |
| 1/19/2016 | | 38101 | 15925 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.3 U | 0.00E+00 | 3.05E-04 | 140.81 |
| 3/18/2016 | | 39377 | 16181 | 160 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.5 U | 0.00E+00 | 2.80E-04 | 140.88 |

Notes:

Mass removal rate = (flow rate in scfm)(concentration in ppmv)(60)(MW) / (387*1000000)

"U" indicates non-detection at the specified reporting limit; for ND compounds, zero is used in mass removal calculations.

MW molecular weight (values from the U.S. National Library

SCFM standard cubic feet per minute

J Indicates estimated value.

B The analyte was detected in the method, field and/or trip blank.

When a duplicate sample was collected, the original sample results are used in the mass calculations.

Table 4.4
Cell 4 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 4 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 4 Run Time (hr) | SVE Flow Rate (scfm) | 1,1,1-Trichloroethane | | 1,1,2-Trichloroethane | | 1,1-Dichloroethane | | 1,2-Dichloroethane | | 1,1-Dichloroethene | | cis-1,2-Dichloroethene | | trans-1,2-Dichloroethene | |
|------------|-------------|-------------------|----------------------|----------------------|-----------------------|---------------------------|-----------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|------------------------|---------------------------|--------------------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| 3/11/2011 | | 222 | 222 | 500 | 150000 | 1.55E+00 | 600 U | 0.00E+00 | 1800 | 1.38E-02 | 600 U | 0.00E+00 | 860 | 6.46E-03 | 1400 | 1.05E-02 | 600 U | 0.00E+00 |
| 3/18/2011 | | 366 | 366 | 500 | 41000 | 4.24E-01 | 150 U | 0.00E+00 | 1000 | 7.67E-03 | 150 U | 0.00E+00 | 250 | 1.88E-03 | 460 | 3.46E-03 | 150 U | 0.00E+00 |
| 3/18/2011 | Dup | 366 | 366 | 500 | 40000 | 4.14E-01 | 130 U | 0.00E+00 | 1000 | 7.67E-03 | 130 U | 0.00E+00 | 300 | 2.25E-03 | 480 | 3.61E-03 | 130 U | 0.00E+00 |
| 3/25/2011 | | 463 | 463 | 500 | 22000 | 2.28E-01 | 62 U | 0.00E+00 | 980 | 7.52E-03* | 62 U | 0.00E+00 | 87 | 6.54E-04 | 290 | 2.18E-03 | 62 U | 0.00E+00 |
| 3/30/2011 | | 558 | 558 | 500 | 25000 | 2.59E-01 | 68 U | 0.00E+00 | 820 | 6.29E-03 | 68 U | 0.00E+00 | 190 | 1.43E-03 | 290 | 2.18E-03 | 68 U | 0.00E+00 |
| 4/8/2011 | | 764 | 764 | 500 | 22000 | 2.28E-01 | 80 U | 0.00E+00 | 1000 | 7.67E-03 | 80 U | 0.00E+00 | 170 | 1.28E-03 | 340 | 2.56E-03 | 80 U | 0.00E+00 |
| 4/15/2011 | | 924 | 924 | 500 | 18000 | 1.86E-01 | 84 U | 0.00E+00 | 930 | 7.13E-03 | 84 U | 0.00E+00 | 110 | 8.27E-04 | 280 | 2.10E-03 | 84 U | 0.00E+00 |
| 4/15/2011 | Dup | 924 | 924 | 500 | 16000 J | 1.65E-01 | 60 U | 0.00E+00 | 820 J | 6.29E-03 | 60 U | 0.00E+00 | 60 UJ | 0.00E+00 | 260 J | 1.95E-03 | 60 U | 0.00E+00 |
| 5/19/2011 | | 1685 | 1685 | 500 | 11000 | 1.14E-01 | 11 U | 0.00E+00 | 640 | 4.91E-03 | 11 U | 0.00E+00 | 100 | 7.52E-04 | 190 | 1.43E-03 | 11 U | 0.00E+00 |
| 6/16/2011 | | 2191 | 2191 | 420 | 10000 | 8.69E-02 | 11 U | 0.00E+00 | 530 | 3.42E-03 | 11 U | 0.00E+00 | 110 J | 6.94E-04 | 160 | 1.01E-03 | 11 U | 0.00E+00 |
| 6/16/2011 | Dup | 2191 | 2191 | 420 | 9600 | 8.34E-02 | 11 U | 0.00E+00 | 510 | 3.29E-03 | 11 U | 0.00E+00 | 110 J | 6.94E-04 | 160 | 1.01E-03 | 11 U | 0.00E+00 |
| 7/15/2011 | | 2750 | 2750 | 420 | 7600 | 6.60E-02 | 24 U | 0.00E+00 | 290 | 1.87E-03 | 24 U | 0.00E+00 | 58 | 3.66E-04 | 79 | 4.99E-04 | 24 U | 0.00E+00 |
| 8/22/2011 | | 3133 | 3133 | 420 | 9000 | 7.82E-02 | 27 U | 0.00E+00 | 410 | 2.64E-03 | 27 U | 0.00E+00 | 92 | 5.81E-04 | 160 | 1.01E-03 | 27 U | 0.00E+00 |
| 8/22/2011 | Dup | 3133 | 3133 | 420 | 9000 | 7.82E-02 | 22 U | 0.00E+00 | 400 | 2.58E-03 | 22 U | 0.00E+00 | 80 | 5.05E-04 | 150 | 9.47E-04 | 22 U | 0.00E+00 |
| 9/15/2011 | | 3630 | 3630 | 420 | 7000 | 6.08E-02 | 22 U | 0.00E+00 | 250 | 1.61E-03 | 22 U | 0.00E+00 | 55 | 3.47E-04 | 97 | 6.12E-04 | 22 U | 0.00E+00 |
| 10/14/2011 | | 4226 | 4226 | 420 | 4400 | 3.82E-02 | 19 U | 0.00E+00 | 180 | 1.16E-03 | 19 U | 0.00E+00 | 59 | 3.72E-04 | 60 | 3.79E-04 | 19 U | 0.00E+00 |
| 11/21/2011 | | 5019 | 5019 | 380 | 3700 | 2.91E-02 | 16 U | 0.00E+00 | 170 | 9.91E-04 | 16 U | 0.00E+00 | 320 | 1.83E-03 | 63 | 3.60E-04 | 16 U | 0.00E+00 |
| 12/14/2011 | | 5343 | 5343 | 260 | 4000 | 2.15E-02 | 19 U | 0.00E+00 | 140 | 5.58E-04 | 19 U | 0.00E+00 | 300 | 1.17E-03 | 55 | 2.15E-04 | 19 U | 0.00E+00 |
| 1/19/2012 | | 5993 | 5993 | 0 | 5200 | 0.00E+00 | 24 U | 0.00E+00 | 160 | 0.00E+00 | 24 U | 0.00E+00 | 58 | 0.00E+00 | 38 | 0.00E+00 | 24 U | 0.00E+00 |
| 2/15/2012 | | 6368 | 6368 | 260 | 4200 | 2.26E-02 | 19 U | 0.00E+00 | 100 | 3.99E-04 | 19 U | 0.00E+00 | 700 | 2.74E-03 | 53 | 2.07E-04 | 19 U | 0.00E+00 |
| 3/15/2012 | | 6946 | 6946 | 350 | 4000 | 2.90E-02 | 15 U | 0.00E+00 | 120 | 6.44E-04 | 15 U | 0.00E+00 | 38 | 2.00E-04 | 38 | 2.00E-04 | 15 U | 0.00E+00 |
| 4/19/2012 | | 7629 | 7629 | 380 | 5200 | 4.09E-02 | 16 U | 0.00E+00 | 160 | 9.33E-04 | 16 U | 0.00E+00 | 42 | 2.40E-04 | 43 | 2.46E-04 | 16 U | 0.00E+00 |
| 5/16/2012 | | 8143 | 8143 | 420 | 4100 | 3.56E-02 | 15 U | 0.00E+00 | 110 | 7.09E-04 | 15 U | 0.00E+00 | 43 | 2.71E-04 | 40 | 2.53E-04 | 15 U | 0.00E+00 |

Table 4.4
Cell 4 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 4 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 4 Run Time (hr) | SVE Flow Rate (scfm) | Tetrachloroethene | | Trichloroethene | | Vinyl chloride | | Methylene Chloride | | Carbon Tetrachloride | | Chloroform | | Chloroethane | | Benzene | |
|------------|-------------|-------------------|----------------------|----------------------|-------------------|---------------------------|-----------------|---------------------------|----------------|---------------------------|--------------------|---------------------------|----------------------|---------------------------|-------------|---------------------------|--------------|---------------------------|-------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| 3/11/2011 | | 222 | 222 | 500 | 7200 | 9.26E-02 | 3900 | 3.97E-02 | 600 U | 0.00E+00 | 600 U | 0.00E+00 | 600 U | 0.00E+00 | 600 U | 0.00E+00 | 2400 U | 0.00E+00 | 600 U | 0.00E+00 |
| 3/18/2011 | | 366 | 366 | 500 | 2900 | 3.73E-02 | 1600 | 1.63E-02 | 150 U | 0.00E+00 | 150 U | 0.00E+00 | 150 U | 0.00E+00 | 150 U | 0.00E+00 | 750 J | 3.75E-03 | 150 U | 0.00E+00 |
| 3/18/2011 | Dup | 366 | 366 | 500 | 3000 | 3.86E-02 | 1600 | 1.63E-02 | 130 UJ | 0.00E+00 | 130 U | 0.00E+00 | 130 U | 0.00E+00 | 130 U | 0.00E+00 | 1100 J | 5.50E-03 | 130 U | 0.00E+00 |
| 3/25/2011 | | 463* | 463 | 500 | 3200 | 4.11E-02 | 970 | 9.88E-03 | 62 U | 0.00E+00 | 61 NJ | 4.02E-04 | 62 U | * 0.00E+00 | 62 U | 0.00E+00 | 610 | 3.05E-03 | 62 U | 0.00E+00 |
| 3/30/2011 | | 558 | 558 | 500 | 2500 | 3.21E-02 | 1000 | 1.02E-02 | 68 U | 0.00E+00 | 68 U | 0.00E+00 | 68 U | 0.00E+00 | 68 U | 0.00E+00 | 470 | 2.35E-03 | 68 U | 0.00E+00 |
| 4/8/2011 | | 764 | 764 | 500 | 2400 | 3.09E-02 | 1000 | 1.02E-02 | 80 U | 0.00E+00 | 80 U | 0.00E+00 | 80 U | 0.00E+00 | 80 U | 0.00E+00 | 430 | 2.15E-03 | 80 U | 0.00E+00 |
| 4/15/2011 | | 924 | 924 | 500 | 1700 | 2.19E-02 | 920 | 9.37E-03 | 84 U | 0.00E+00 | 84 U | 0.00E+00 | 84 U | 0.00E+00 | 84 U | 0.00E+00 | 340 U | 0.00E+00 | 84 U | 0.00E+00 |
| 4/15/2011 | Dup | 924 | 924 | 500 | 1500 J | 1.93E-02 | 830 J | 8.45E-03 | 60 U | 0.00E+00 | 60 U | 0.00E+00 | 60 U | 0.00E+00 | 60 U | 0.00E+00 | 260 J | 1.30E-03 | 60 U | 0.00E+00 |
| 5/19/2011 | | 1685 | 1685 | 500 | 1400 | 1.80E-02 | 530 | 5.40E-03 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 67 | 3.35E-04 | 26 | 1.57E-04 |
| 6/16/2011 | | 2191 | 2191 | 420 | 1000 | 1.08E-02 | 410 | 3.51E-03 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 46 U | 0.00E+00 | 14 | 7.12E-05 |
| 6/16/2011 | Dup | 2191 | 2191 | 420 | 960 | 1.04E-02 | 400 | 3.42E-03 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 45 U | 0.00E+00 | 12 | 6.10E-05 |
| 7/15/2011 | | 2750 | 2750 | 420 | 570 | 6.16E-03 | 250 | 2.14E-03 | 24 U | 0.00E+00 | 28 | 1.55E-04 | 24 U | 0.00E+00 | 24 U | 0.00E+00 | 95 U | 0.00E+00 | 24 U | 0.00E+00 |
| 8/22/2011 | | 3133 | 3133 | 420 | 920 | 9.93E-03 | 380 | 3.25E-03 | 27 U | 0.00E+00 | 27 U | 0.00E+00 | 27 U | 0.00E+00 | 27 U | 0.00E+00 | 110 U | 0.00E+00 | 27 U | 0.00E+00 |
| 8/22/2011 | Dup | 3133 | 3133 | 420 | 940 | 1.02E-02 | 360 | 3.08E-03 | 22 U | 0.00E+00 | 22 U | 0.00E+00 | 22 U | 0.00E+00 | 22 U | 0.00E+00 | 90 U | 0.00E+00 | 22 U | 0.00E+00 |
| 9/15/2011 | | 3630 | 3630 | 420 | 660 | 7.13E-03 | 270 | 2.31E-03 | 22 U | 0.00E+00 | 22 U | 0.00E+00 | 22 U | 0.00E+00 | 22 U | 0.00E+00 | 90 U | 0.00E+00 | 22 U | 0.00E+00 |
| 10/14/2011 | | 4226 | 4226 | 420 | 390 | 4.21E-03 | 180 | 1.54E-03 | 19 U | 0.00E+00 | 19 U | 0.00E+00 | 19 U | 0.00E+00 | 19 U | 0.00E+00 | 77 U | 0.00E+00 | 19 U | 0.00E+00 |
| 11/21/2011 | | 5019 | 5019 | 380 | 360 | 3.52E-03 | 180 | 1.39E-03 | 16 U | 0.00E+00 | 160 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 63 U | 0.00E+00 | 16 U | 0.00E+00 |
| 12/14/2011 | | 5343 | 5343 | 260 | 360 | 2.41E-03 | 160 | 8.47E-04 | 19 U | 0.00E+00 | 190 U | 0.00E+00 | 19 U | 0.00E+00 | 19 U | 0.00E+00 | 74 U | 0.00E+00 | 19 U | 0.00E+00 |
| 1/19/2012 | | 5993 | 5993 | 0 | 320 | 0.00E+00 | 180 | 0.00E+00 | 24 U | 0.00E+00 | 24 U | 0.00E+00 | 24 U | 0.00E+00 | 24 U | 0.00E+00 | 97 U | 0.00E+00 | 24 U | 0.00E+00 |
| 2/15/2012 | | 6368 | 6368 | 260 | 280 | 1.87E-03 | 150 | 7.94E-04 | 19 U | 0.00E+00 | 19 U | 0.00E+00 | 19 U | 0.00E+00 | 19 U | 0.00E+00 | 78 U | 0.00E+00 | 19 U | 0.00E+00 |
| 3/15/2012 | | 6946 | 6946 | 350 | 240 | 2.16E-03 | 140 | 9.98E-04 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 58 U | 0.00E+00 | 15 U | 0.00E+00 |
| 4/19/2012 | | 7629 | 7629 | 380 | 400 | 3.91E-03 | 180 | 1.39E-03 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 62 U | 0.00E+00 | 16 U | 0.00E+00 |
| 5/16/2012 | | 8143 | 8143 | 420 | 320 | 3.46E-03 | 150 | 1.28E-03 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 61 U | 0.00E+00 | 15 U | 0.00E+00 |

Table 4.4
Cell 4 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 4 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 4 Run Time (hr) | SVE Flow Rate (scfm) | Toluene | | Ethylbenzene | | m&p-Xylenes | | o-Xylenes | | Acetone | | Methyl Ethyl Ketone (MEK) | | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) |
|------------|-------------|-------------------|----------------------|----------------------|-------------|---------------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | | |
| 3/11/2011 | | 222 | 222 | 500 | 600 U | 0.00E+00 | 600 U | 0.00E+00 | 710 | 5.84E-03 | 600 U | 0.00E+00 | 2400 U | 0.00E+00 | 2400 U | 0.00E+00 | 1.72E+00 | 381.87 |
| 3/18/2011 | | 366 | 366 | 500 | 620 J | 4.43E-03 | 150 U | 0.00E+00 | 240 | 1.98E-03 | 200 | 1.65E-03 | 1500 J | 6.75E-03 | 590 U | 0.00E+00 | 5.09E-01 | 453.50 |
| 3/18/2011 | Dup | 366 | 366 | 500 | 380 J | 2.71E-03 | 130 U | 0.00E+00 | 250 | 2.06E-03 | 240 | 1.98E-03 | 690 J | 3.11E-03 | 540 U | 0.00E+00 | 4.97E-01 | 453.50 |
| 3/25/2011 | | 463 | 463 | 500* | 140 | 1.00E-03 | 62 U | 0.00E+00 | 78 | 6.42E-04 | 67 | 5.51E-04 | 250 U | 0.00E+00 | 250 U | 0.00E+00 | 2.95E-01 | 482.07 |
| 3/30/2011 | | 558 | 558 | 500 | 190 | 1.36E-03 | 68 U | 0.00E+00 | 250 | 2.06E-03 | 140 | 1.15E-03 | 270 U | 0.00E+00 | 270 U | 0.00E+00 | 3.18E-01 | 512.25 |
| 4/8/2011 | | 764 | 764 | 500 | 200 | 1.43E-03 | 120 | 9.88E-04 | 560 | 4.61E-03 | 260 | 2.14E-03 | 320 U | 0.00E+00 | 320 U | 0.00E+00 | 2.91E-01 | 572.27 |
| 4/15/2011 | | 924 | 924 | 500 | 170 | 1.21E-03 | 110 | 9.05E-04 | 540 | 4.44E-03 | 260 | 2.14E-03 | 340 U | 0.00E+00 | 340 U | 0.00E+00 | 2.36E-01 | 610.05 |
| 4/15/2011 | Dup | 924 | 924 | 500 | 140 J | 1.00E-03 | 99 J | 8.15E-04 | 540 J | 4.44E-03 | 230 J | 1.89E-03 | 240 J,B | 1.08E-03 | 240 U | 0.00E+00 | 2.12E-01 | 610.05 |
| 5/19/2011 | | 1685 | 1685 | 500 | 100 | 7.14E-04 | 140 | 1.15E-03 | 920 | 7.57E-03 | 420 | 3.46E-03 | 81 | 3.65E-04 | 43 U | 0.00E+00 | 1.58E-01 | 730.28 |
| 6/16/2011 | | 2191 | 2191 | 420 | 51 | 3.06E-04 | 83 | 5.74E-04 | 600 | 4.15E-03 | 280 | 1.94E-03 | 46 J,B | 1.74E-04 | 46 U | 0.00E+00 | 1.14E-01 | 753.86 |
| 6/16/2011 | Dup | 2191 | 2191 | 420 | 53 | 3.18E-04 | 78 | 5.39E-04 | 580 | 4.01E-03 | 270 | 1.87E-03 | 69 J,B | 2.61E-04 | 45 U | 0.00E+00 | 1.09E-01 | 785.55 |
| 7/15/2011 | | 2750 | 2750 | 420 | 28 | 1.68E-04 | 41 | 2.83E-04 | 270 | 1.87E-03 | 120 | 8.30E-04 | 180 | 6.81E-04 | 95 U | 0.00E+00 | 8.10E-02 | 830.85 |
| 8/22/2011 | | 3133 | 3133 | 420 | 35 J | 2.10E-04 | 59 J | 4.08E-04 | 340 | 2.35E-03 | 140 | 9.68E-04 | 110 U | 0.00E+00 | 110 U | 0.00E+00 | 9.95E-02 | 868.97 |
| 8/22/2011 | Dup | 3133 | 3133 | 420 | 22 UJ | 0.00E+00 | 30 J | 2.07E-04 | 310 | 2.14E-03 | 130 | 8.99E-04 | 90 U | 0.00E+00 | 90 U | 0.00E+00 | 9.87E-02 | 868.65 |
| 9/15/2011 | | 3630 | 3630 | 420 | 22 U | 0.00E+00 | 31 | 2.14E-04 | 340 | 2.35E-03 | 130 | 8.99E-04 | 90 U | 0.00E+00 | 90 U | 0.00E+00 | 7.63E-02 | 906.88 |
| 10/14/2011 | | 4226 | 4226 | 420 | 38 | 2.28E-04 | 19 U | 0.00E+00 | 170 | 1.18E-03 | 70 | 4.84E-04 | 77 U | 0.00E+00 | 77 U | 0.00E+00 | 4.78E-02 | 935.35 |
| 11/21/2011 | | 5019 | 5019 | 380 | 16 U | 0.00E+00 | 17 | 1.06E-04 | 220 | 1.38E-03 | 100 | 6.25E-04 | 160 U | 0.00E+00 | 63 U | 0.00E+00 | 3.93E-02 | 966.50 |
| 12/14/2011 | | 5343 | 5343 | 260 | 19 U | 0.00E+00 | 19 U | 0.00E+00 | 76 | 3.25E-04 | 55 | 2.35E-04 | 190 UJ | 0.00E+00 | 74 U | 0.00E+00 | 2.73E-02 | 975.34 |
| 1/19/2012 | | 5993 | 5993 | 0 | 36 | 0.00E+00 | 24 U | 0.00E+00 | 78 | 0.00E+00 | 50 | 0.00E+00 | 97 U | 0.00E+00 | 97 U | 0.00E+00 | 0.00E+00 | 975.34 |
| 2/15/2012 | | 6368 | 6368 | 260 | 19 U | 0.00E+00 | 19 U | 0.00E+00 | 58 | 2.48E-04 | 40 | 1.71E-04 | 300 | 7.02E-04 | 78 U | 0.00E+00 | 2.97E-02 | 986.48 |
| 3/15/2012 | | 6946 | 6946 | 350 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 44 | 2.53E-04 | 31 | 1.79E-04 | 58 U | 0.00E+00 | 58 U | 0.00E+00 | 3.36E-02 | 1005.89 |
| 4/19/2012 | | 7629 | 7629 | 380 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 48 | 3.00E-04 | 33 | 2.06E-04 | 62 U | 0.00E+00 | 62 U | 0.00E+00 | 4.81E-02 | 1038.74 |
| 5/16/2012 | | 8143 | 8143 | 420 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 28 | 1.94E-04 | 23 | 1.59E-04 | 61 U | 0.00E+00 | 61 U | 0.00E+00 | 4.19E-02 | 1060.30 |

Table 4.4
Cell 4 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

| CELL 4 SVE EFFLUENT | | | | | | | | | | | | | | | | | | |
|--|-------------|-------------------|----------------------|----------------------|-----------------------|---------------------------|-----------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|------------------------|---------------------------|--------------------------|---------------------------|
| Date | Sample Type | SVE Run Time (hr) | Cell 4 Run Time (hr) | SVE Flow Rate (scfm) | 1,1,1-Trichloroethane | | 1,1,2-Trichloroethane | | 1,1-Dichloroethane | | 1,2-Dichloroethane | | 1,1-Dichloroethene | | cis-1,2-Dichloroethene | | trans-1,2-Dichloroethene | |
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| Pulse -off period June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | | | |
| 8/14/2012 | | 8546 | 8546 | 420 | 5000 | 4.34E-02 | 16 U | 0.00E+00 | 98 | 6.32E-04 | 16 U | 0.00E+00 | 66 | 4.17E-04 | 27 | 1.70E-04 | 16 U | 0.00E+00 |
| 9/17/2012 | | 9033 | 9033 | 470 | 3700 | 3.60E-02 | 15 U | 0.00E+00 | 140 | 1.01E-03 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 26 | 1.84E-04 | 15 U | 0.00E+00 |
| Pulse -off period September 17, 2012 to November 15, 2012 | | | | | * | | | | | | | | | | | | | * |
| 11/15/2012 | | 9037 | 9037 | 420 | 4900 J | 4.26E-02 | 28 U | 0.00E+00 | 74 J | 4.77E-04 | 28 U | 0.00E+00 | 110 J | 6.94E-04 | 29 J | 1.83E-04 | 28 U | 0.00E+00 |
| 11/15/2012 | Dup | 9037 | 9037 | 420 | 8700 | 7.56E-02 | 24 U | 0.00E+00 | 200 J | 1.29E-03 | 24 U | 0.00E+00 | 220 | 1.39E-03 | 360 J | 2.27E-03 | 24 U | 0.00E+00 |
| 12/14/2012 | | 9439 | 9439 | 150 | 500 | 1.55E-03 | 1.9 U | 0.00E+00 | 14 | 3.22E-05 | 1.9 U | 0.00E+00 | 6.8 | 1.53E-05 | 18 | 4.06E-05 | 1.9 U | 0.00E+00 |
| Pulse -off period December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | | | | |
| 2/26/2013 | | 9439 | 9439 | 0 | 520 | 0.00E+00 | 2.2 U | 0.00E+00 | 23 | 0.00E+00 | 2.2 U | 0.00E+00 | 5.7 | 0.00E+00 | 28 | 0.00E+00 | 2.2 U | 0.00E+00 |
| 4/11/2013 | | 9876 | 9876 | 340 | 430 | 3.02E-03 | 1.8 U | 0.00E+00 | 26 | 1.36E-04 | 1.8 U | 0.00E+00 | 7.1 | 3.63E-05 | 28 | 1.43E-04 | 1.8 U | 0.00E+00 |
| Pulse -off period April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | | | | |
| 5/10/2013 | | 9882 | 9882 | 340 | 270 | 1.90E-03 | 1.1 U | 0.00E+00 | 23 | 1.20E-04 | 1.1 U | 0.00E+00 | 3.4 | 1.74E-05 | 30 | 1.53E-04 | 1.1 U | 0.00E+00 |
| 7/15/2013 | | 10907 | 10907 | 340 | 100 | 7.03E-04 | 1.1 U | 0.00E+00 | 13 | 6.78E-05 | 1.1 U | 0.00E+00 | 1.7 | 8.69E-06 | 14 | 7.15E-05 | 1.1 U | 0.00E+00 |
| Pulse -off period July 15, 2013 to September 9, 2013 | | | | | | | | | | | | | | | | | | |
| 9/9/2013 | | 10914 | 10914 | 340 | 170 | 1.20E-03 | 1.2 U | 0.00E+00 | 17 | 8.87E-05 | 1.2 U | 0.00E+00 | 2.2 | 1.12E-05 | 27 | 1.38E-04 | 1.2 | 6.13E-06 |
| 11/18/2013 | | 11992 | 11992 | 260 | 330 | 1.77E-03 | 1.1 U | 0.00E+00 | 7.9 | 3.15E-05 | 1.1 U | 0.00E+00 | 5.2 | 2.03E-05 | 14 | 5.47E-05 | 1.1 U | 0.00E+00 |
| Pulse -off period November 18, 2013 to March 14, 2014 | | | | | | | | | | | | | | | | | | |
| 1/15/2014 | | 11997 | 11997 | 320 | 200 | 1.32E-03 | 1.2 U | 0.00E+00 | 5.5 | 2.70E-05 | 1.2 U | 0.00E+00 | 3.3 | 1.59E-05 | 9.6 | 4.62E-05 | 1.2 U | 0.00E+00 |
| 3/14/2014 | | 12980 | 12980 | 180 | 430 | 1.60E-03 | 2.6 U | 0.00E+00 | 6.2 | 1.71E-05 | 2.6 U | 0.00E+00 | 8.2 | 2.22E-05 | 18 | 4.87E-05 | 2.6 U | 0.00E+00 |
| Pulse -off period March 14, 2014 to May 15, 2014 | | | | | | | | | | | | | | | | | | |
| 5/15/2014 | | 12986 | 12986 | 180 | 470 | 1.75E-03 | 1.1 U | 0.00E+00 | 10 | 2.76E-05 | 1.1 U | 0.00E+00 | 6.9 | 1.87E-05 | 22 | 5.95E-05 | 1.1 U | 0.00E+00 |
| 7/23/2014 | | 14627 | 14627 | 300 | 14 | 8.69E-05 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.6 | 0.00E+00 | 1.3 U | 0.00E+00 |
| Pulse -off period July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | | | | |
| 9/16/2014 | | 14634 | 14628 | 320 | 150 | 9.93E-04 | 1.2 U | 0.00E+00 | 9 | 4.42E-05 | 1.2 U | 0.00E+00 | 1.7 | 8.18E-06 | 15 | 7.21E-05 | 1.2 U | 0.00E+00 |
| 11/14/2014 | | 16008 | 16008 | 320 | 220 | 1.46E-03 | 0.96 U | 0.00E+00 | 5 | 2.45E-05 | 0.96 U | 0.00E+00 | 3.6 | 1.73E-05 | 8.9 | 4.28E-05 | 0.96 U | 0.00E+00 |
| Pulse -off period November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | | | | |
| 1/9/2015 | | 16015 | 16015 | 260 | 150 | 8.07E-04 | 1.1 U | 0.00E+00 | 4.1 | 1.64E-05 | 1.1 U | 0.00E+00 | 2.2 | 8.60E-06 | 7.4 | 2.89E-05 | 1.1 U | 0.00E+00 |
| 3/13/2015 | | 17178 | 17178 | 220 | 190 | 8.65E-04 | 1.2 U | 0.00E+00 | 4.9 | 1.65E-05 | 1.2 U | 0.00E+00 | 3.1 | 1.03E-05 | 5.5 | 1.82E-05 | 1.2 U | 0.00E+00 |
| Pulse -off period March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | | | | |
| 5/15/2015 | | 17186 | 17186 | 320 | 180 | 1.19E-03 | 2.6 U | 0.00E+00 | 4.3 | 2.11E-05 | 2.6 U | 0.00E+00 | 2.8 | 1.35E-05 | 5.2 | 2.50E-05 | 2.6 U | 0.00E+00 |
| 7/16/2015 | | 18436 | 18436 | 310 | 270 | 1.73E-03 | 1.2 U | 0.00E+00 | 7.7 | 3.66E-05 | 1.2 U | 0.00E+00 | 4 | 1.86E-05 | 13 | 6.06E-05 | 1.2 U | 0.00E+00 |
| Pulse -off period July 16, 2015 to September 22, 2015 | | | | | | | | | | | | | | | | | | |
| 9/22/2015 | | 18439 | 18439 | 300 | 200 | 1.24E-03 | 1.1 U | 0.00E+00 | 6.3 | 2.90E-05 | 1.1 U | 0.00E+00 | 2.1 | 9.47E-06 | 11 | 4.96E-05 | 1.1 U | 0.00E+00 |
| 11/20/2015 | | 19832 | 19832 | 530 | 170 | 1.86E-03 | 1.2 U | 0.00E+00 | 7 | 5.69E-05 | 1.2 U | 0.00E+00 | 2.6 | 2.07E-05 | 12 | 9.56E-05 | 1.2 U | 0.00E+00 |
| Pulse -off period November 20, 2015 to January 19, 2016 | | | | | | | | | | | | | | | | | | |
| 1/19/2016 | | 19841 | 19841 | 380 | 39 | 3.07E-04 | 1.1 U | 0.00E+00 | 1.7 | 9.91E-06 | 1.1 U | 0.00E+00 | 1. | | | | | |

Table 4.4
Cell 4 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 4 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 4 Run Time (hr) | SVE Flow Rate (scfm) | Tetrachloroethene | | Trichloroethene | | Vinyl chloride | | Methylene Chloride | | Carbon Tetrachloride | | Chloroform | | Chloroethane | | Benzene | |
|---|-------------|-------------------|----------------------|----------------------|-------------------|---------------------------|-----------------|---------------------------|----------------|---------------------------|--------------------|---------------------------|----------------------|---------------------------|-------------|---------------------------|--------------|---------------------------|-------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| Pulse-off period June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | | | | | |
| 8/14/2012 | | 8546 | 8546 | 420 | 490 | 5.29E-03 | 180 | 1.54E-03 | 16 U | 0.00E+00 | 160 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 63 U | 0.00E+00 | 16 U | 0.00E+00 |
| 9/17/2012 | | 9033 | 9033 | 470 | 410 | 4.95E-03 | 220 | 2.11E-03 | 15 U | 0.00E+00 | 150 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 61 U | 0.00E+00 | 15 U | 0.00E+00 |
| Pulse-off period September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | | | | | | |
| 11/15/2012 | | 9037 | 9037 | 420 | 260 J | 2.81E-03 | 150 J | 1.28E-03 | 28 U | 0.00E+00 | 280 U | 0.00E+00 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 110 U | 0.00E+00 | 28 U | 0.00E+00 |
| 11/15/2012 | Dup | 9037 | 9037 | 420 | 1200 J | 1.30E-02 | 390 J | 3.34E-03 | 24 U | 0.00E+00 | 240 U | 0.00E+00 | 24 U | 0.00E+00 | 24 U | 0.00E+00 | 94 U | 0.00E+00 | 24 U | 0.00E+00 |
| 12/14/2012 | | 9439 | 9439 | 150 | 62 | 2.39E-04 | 28 | 8.56E-05 | 1.9 U | 0.00E+00 | 19 U | 0.00E+00 | 1.9 U | 0.00E+00 | 7.5 U | 0.00E+00 | 1.9 U | 0.00E+00 | | |
| Pulse-off period December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | | | | | | |
| 2/26/2013 | | 9439 | 9439 | 0 | 130 | 0.00E+00 | 27 | 0.00E+00 | 2.2 U | 0.00E+00 | 22 U | 0.00E+00 | 2.2 U | 0.00E+00 | 2.2 U | 0.00E+00 | 8.7 U | 0.00E+00 | 2.2 U | 0.00E+00 |
| 4/11/2013 | | 9876 | 9876 | 340 | 98 | 8.57E-04 | 25 | 1.73E-04 | 1.8 U | 0.00E+00 | 18 U | 0.00E+00 | 1.8 U | 0.00E+00 | 1.8 U | 0.00E+00 | 7.1 U | 0.00E+00 | 1.8 U | 0.00E+00 |
| Pulse-off period April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | | | | | | |
| 5/10/2013 | | 9882 | 9882 | 340 | 120 | 1.05E-03 | 23 | 1.59E-04 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.5 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 7/15/2013 | | 10907 | 10907 | 340 | 180 | 1.57E-03 | 30 | 2.08E-04 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| Pulse-off period July 15, 2013 to September 9, 2013 | | | | | | | | | | | | | | | | | | | | |
| 9/9/2013 | | 10914 | 10914 | 340 | 350 | 3.06E-03 | 50 | 3.46E-04 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 11/18/2013 | | 11992 | 11992 | 260 | 50 | 3.34E-04 | 13 | 6.89E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.4 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| Pulse-off period November 18, 2013 to March 14, 2014 | | | | | | | | | | | | | | | | | | | | |
| 1/15/2014 | | 11997 | 11997 | 320 | 51 | 4.20E-04 | 11 | 7.17E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.8 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 3/14/2014 | | 12980 | 12980 | 180 | 7.8 | 3.61E-05 | 14 | 5.13E-05 | 2.6 U | 0.00E+00 | 26 U | 0.00E+00 | 2.6 U | 0.00E+00 | 2.6 U | 0.00E+00 | 10 U | 0.00E+00 | 2.6 U | 0.00E+00 |
| Pulse-off period March 14, 2014 to May 15, 2014 | | | | | | | | | | | | | | | | | | | | |
| 5/15/2014 | | 12986 | 12986 | 180 | 38 | 1.76E-04 | 17 | 6.23E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 7/23/2014 | | 14627 | 14627 | 300 | 15 | 1.16E-04 | 2.4 | 1.47E-05 | 1.3 U | 0.00E+00 | 13 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 5.2 U | 0.00E+00 | 1.3 U | 0.00E+00 |
| Pulse-off period July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | | | | | | |
| 9/16/2014 | | 14634 | 14628 | 320 | 200 | 1.65E-03 | 39 | 2.54E-04 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.9 U | 0.00E+00 | 2 | 7.75E-06 |
| 11/14/2014 | | 16008 | 16008 | 320 | 69 | 5.68E-04 | 12 | 7.82E-05 | 0.96 U | 0.00E+00 | 9.6 U | 0.00E+00 | 0.96 U | 0.00E+00 | 0.96 U | 0.00E+00 | 3.8 U | 0.00E+00 | 0.96 U | 0.00E+00 |
| Pulse-off period November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | | | | | | |
| 1/9/2015 | | 16015 | 16015 | 260 | 50 | 3.34E-04 | 11 | 5.83E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.4 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 3/13/2015 | | 17178 | 17178 | 220 | 27 | 1.53E-04 | 6.9 | 3.09E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.8 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse-off period March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | | | | | | |
| 5/15/2015 | | 17186 | 17186 | 320 | 45 | 3.70E-04 | 9.8 | 6.39E-05 | 2.6 U | 0.00E+00 | 26 U | 0.00E+00 | 2.6 U | 0.00E+00 | 2.6 U | 0.00E+00 | 10 U | 0.00E+00 | 2.6 U | 0.00E+00 |
| 7/16/2015 | | 18436 | 18436 | 310 | 130 | | | | | | | | | | | | | | | |

Table 4.4
Cell 4 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 4 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 4 Run Time (hr) | SVE Flow Rate (scfm) | Toluene | | Ethylbenzene | | m&p-Xylenes | | o-Xylenes | | Acetone | | Methyl Ethyl Ketone (MEK) | | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) |
|-------------------|---|-------------------|----------------------|----------------------|-------------|---------------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | | |
| Pulse -off period | June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | | |
| 8/14/2012 | | 8546 | 8546 | 420 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 160 U | 0.00E+00 | 63 U | 0.00E+00 | 5.15E-02 | 1081.05 |
| 9/17/2012 | | 9033 | 9033 | 470 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 150 U | 0.00E+00 | 61 U | 0.00E+00 | 4.42E-02 | 1102.58 |
| Pulse -off period | September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | | | |
| 11/15/2012 | | 9037 | 9037 | 420 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 28 U | 0.00E+00 | 280 U | 0.00E+00 | 110 U | 0.00E+00 | 4.80E-02 | 1102.78 |
| 11/15/2012 | Dup | 9037 | 9037 | 420 | 24 U | 0.00E+00 | 24 U | 0.00E+00 | 24 U | 0.00E+00 | 24 U | 0.00E+00 | 240 U | 0.00E+00 | 94 U | 0.00E+00 | 9.68E-02 | 1102.97 |
| 12/14/2012 | | 9439 | 9439 | 150 | 1.9 U | 0.00E+00 | 1.9 U | 0.00E+00 | 1.9 U | 0.00E+00 | 1.9 U | 0.00E+00 | 19 U | 0.00E+00 | 7.5 U | 0.00E+00 | 1.96E-03 | 1103.57 |
| Pulse -off period | December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | | | |
| 2/26/2013 | | 9439 | 9439 | 0 | 2.2 U | 0.00E+00 | 2.2 U | 0.00E+00 | 2.2 U | 0.00E+00 | 2.2 U | 0.00E+00 | 22 U | 0.00E+00 | 8.7 U | 0.00E+00 | 0.00E+00 | 1103.57 |
| 4/11/2013 | | 9876 | 9876 | 340 | 1.8 U | 0.00E+00 | 1.8 U | 0.00E+00 | 1.8 U | 0.00E+00 | 1.8 U | 0.00E+00 | 18 U | 0.00E+00 | 7.1 U | 0.00E+00 | 4.37E-03 | 1105.48 |
| Pulse -off period | April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | | | |
| 5/10/2013 | | 9882 | 9882 | 340 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.5 U | 0.00E+00 | 3.40E-03 | 1105.50 |
| 7/15/2013 | | 10907 | 10907 | 340 | 19 | 9.23E-05 | 1.2 | 6.72E-06 | 2.2 | 1.23E-05 | 1.1 U | 0.00E+00 | 24 | 7.35E-05 | 4.9 | 1.86E-05 | 2.84E-03 | 1108.40 |
| Pulse -off period | July 15, 2013 to September 9, 2013 | | | | | | | | | | | | | | | | | |
| 9/9/2013 | | 10914 | 10914 | 340 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 14 | 4.29E-05 | 4.6 U | 0.00E+00 | 4.89E-03 | 1108.44 |
| 11/18/2013 | | 11992 | 11992 | 260 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.4 U | 0.00E+00 | 2.28E-03 | 1110.90 |
| Pulse -off period | November 18, 2013 to March 14, 2014 | | | | | | | | | | | | | | | | | |
| 1/15/2014 | | 11997 | 11997 | 320 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.8 U | 0.00E+00 | 1.90E-03 | 1110.91 |
| 3/14/2014 | | 12980 | 12980 | 180 | 2.6 U | 0.00E+00 | 2.6 U | 0.00E+00 | 2.6 U | 0.00E+00 | 2.6 U | 0.00E+00 | 26 U | 0.00E+00 | 10 U | 0.00E+00 | 1.78E-03 | 1112.65 |
| Pulse -off period | March 14, 2014 to May 15, 2014 | | | | | | | | | | | | | | | | | |
| 5/15/2014 | | 12986 | 12986 | 180 | 3.9 | 1.00E-05 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.6 U | 0.00E+00 | 2.10E-03 | 1112.67 |
| 7/23/2014 | | 14627 | 14627 | 300 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 1.3 U | 0.00E+00 | 13 U | 0.00E+00 | 5.2 U | 0.00E+00 | 2.17E-04 | 1113.02 |
| Pulse -off period | July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | | | |
| 9/16/2014 | | 14634 | 14628 | 320 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 21 | 6.05E-05 | 4.9 U | 0.00E+00 | 3.09E-03 | 1113.03 |
| 11/14/2014 | | 16008 | 16008 | 320 | 0.96 U | 0.00E+00 | 0.96 U | 0.00E+00 | 0.96 U | 0.00E+00 | 0.96 U | 0.00E+00 | 9.6 U | 0.00E+00 | 3.8 U | 0.00E+00 | 2.19E-03 | 1116.04 |
| Pulse -off period | November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | | | |
| 1/9/2015 | | 16015 | 16015 | 260 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.4 U | 0.00E+00 | 1.25E-03 | 1116.05 |
| 3/13/2015 | | 17178 | 17178 | 220 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.8 U | 0.00E+00 | 1.09E-03 | 1117.32 |
| Pulse -off period | March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | | | |
| 5/15/2015 | | 17186 | 17186 | 320 | 2.6 U | 0.00E+00 | 2.6 U | 0.00E+00 | 2.6 U | 0.00E+00 | 2.6 U | 0.00E+00 | 26 U | 0.00E+00 | 10 U | 0.00E+00 | 1.68E-03 | 1117.34 |
| 7/16/2015 | | 18436 | 18436 | 310 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 4.9 U | 0.00E+00 | 3.05E-03 | 1121.16 |
| Pulse -off period | July 16, 2015 to September 22, 2015 | | | | | | | | | | | | | | | | | |
| 9/22/2015 | | 18439 | 18439 | 300 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.3 U | 0.00E+00 | 3.09E-03 | 1121.16 |
| 11/20/2015 | | 19832 | 19832 | 530 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 5.0 U | 0.00E+00 | 3.92E-03 | 1126.63 |
| Pulse -off period | November 20, 2015 to January 19, 2016 | | | | | | | | | | | | | | | | | |
| 1/19/2016 | | 19841 | 19841 | 380 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 4.3 U | 0.00E+00 | 1.03E-03 | 1126.63 |
| 3/18/2016 | | 21088 | 21088 | 420 | 2.7 | 1.62E-05 | 1.1 U | 0.00E+00 | 9.7 | 6.71E-05 | 4.1 | 2.83E-05 | 11 U | 0.00E+00 | 4.5 U | 0.00E+00 | 1.61E-03 | 1128.65 |

Notes:

Mass removal rate = (flow rate in scfm)(concentration in ppmv)(60)(MW) / (387*1000000)

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Table 4.5
Cell 5 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 5 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 5 Run Time (hr) | SVE Flow Rate (scfm) | 1,1,1-Trichloroethane | | 1,1,2-Trichloroethane | | 1,1-Dichloroethane | | 1,2-Dichloroethane | | 1,1-Dichloroethene | | cis-1,2-Dichloroethene | | trans-1,2-Dichloroethene | | Tetrachloroethene | |
|---|-------------|-------------------|----------------------|----------------------|-----------------------|---------------------------|-----------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|------------------------|---------------------------|--------------------------|---------------------------|-------------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| 3/11/2011 | | 218 | 218 | 360 | 28000 | 2.08E-01 | 100 U | 0.00E+00 | 2400 | 1.33E-02 | 100 U | 0.00E+00 | 740 | 4.00E-03 | 10000 | 5.41E-02 | 100 U | 0.00E+00 | 5900 | 5.46E-02 |
| 3/18/2011 | | 362 | 362 | 360 | 13000 | 9.68E-02 | 52 U | 0.00E+00 | 1100 | 6.08E-03 | 52 U | 0.00E+00 | 280 | 1.52E-03 | 4800 | 2.60E-02 | 52 U | 0.00E+00 | 6800 | 6.29E-02 |
| 3/25/2011 | | 459 | 459 | 360 | 8900 | 6.63E-02 | 30 U | 0.00E+00 | 650 | 3.59E-03 | 30 U | 0.00E+00 | 200 | 1.08E-03 | 2600 | 1.41E-02 | 30 U | 0.00E+00 | 5400 | 5.00E-02 |
| 3/30/2011 | | 553 | 553 | 360 | 4600 | 3.43E-02 | 13 U | 0.00E+00 | 310 | 1.71E-03 | 13 U | 0.00E+00 | 100 | 5.41E-04* | 1300 | 7.03E-03 | 13 U | 0.00E+00 | 4000 | 3.70E-02 |
| 4/8/2011 | | 759 | 759 | 360 | 4600 | 3.43E-02 | 20 U | 0.00E+00 | 330 | 1.82E-03 | 20 U | 0.00E+00 | 95 | 5.14E-04 | 1100 | 5.95E-03 | 20 U | 0.00E+00 | 5700 | 5.28E-02 |
| 4/15/2011 | | 920 | 920 | 360 | 4600 | 3.43E-02 | 20 U | 0.00E+00 | 370 | 2.04E-03 | 20 U | 0.00E+00 | 69 | 3.73E-04 | 980 | 5.30E-03 | 20 U | 0.00E+00 | 4600 | 4.26E-02 |
| 5/19/2011 | | 1681 | 1681 | 330 | 2800 | 1.91E-02 | 12 U | 0.00E+00 | 250 | 1.27E-03 | 12 U | 0.00E+00 | 34 | 1.69E-04 | 730 | 3.62E-03 | 12 U | 0.00E+00 | 7800 | 6.62E-02 |
| 6/16/2011 | | 2187 | 2187 | 300 | 1800 | 1.12E-02 | 7.8 U | 0.00E+00 | 170 | 7.82E-04 | 7.8 U | 0.00E+00 | 23 J | 1.04E-04 | 520 | 2.34E-03 | 7.8 U | 0.00E+00 | 2400 | 1.85E-02 |
| 7/15/2011 | | 2745 | 2745 | 220 | 2400 | 1.09E-02 | 7.6 U | 0.00E+00 | 180 | 6.08E-04 | 7.6 U | 0.00E+00 | 27 | 8.93E-05 | 840 | 2.78E-03 | 7.6 U | 0.00E+00 | 2700 | 1.53E-02 |
| 8/22/2011 | | 3129 | 3129 | 260 | 1700 | 9.14E-03 | 5.0 U | 0.00E+00 | 150 | 5.98E-04 | 5.0 U | 0.00E+00 | 21 | 8.21E-05 | 690 | 2.70E-03 | 5.0 U | 0.00E+00 | 2000 | 1.34E-02 |
| 9/15/2011 | | 3626 | 3626 | 220 | 1400 | 6.37E-03 | 4.5 U | 0.00E+00 | 69 | 2.33E-04 | 4.5 U | 0.00E+00 | 22 | 7.27E-05 | 380 | 1.26E-03 | 4.5 U | 0.00E+00 | 1100 | 6.22E-03 |
| 10/14/2011 | | 4222 | 4222 | 220 | 980 | 4.46E-03 | 3.9 U | 0.00E+00 | 57 | 1.92E-04 | 3.9 U | 0.00E+00 | 19 | 6.28E-05 | 310 | 1.03E-03 | 3.9 U | 0.00E+00 | 760 | 4.30E-03 |
| 11/21/2011 | Dup | 5015 | 5015 | 200 | 690 | 2.85E-03 | 3.2 U | 0.00E+00 | 55 | 1.69E-04 | 3.2 U | 0.00E+00 | 45 | 1.35E-04 | 290 | 8.72E-04 | 3.2 U | 0.00E+00 | 380 | 1.95E-03 |
| 11/21/2011 | Dup | 5015 | 5015 | 200 | 700 | 2.90E-03 | 3.1 U | 0.00E+00 | 57 | 1.75E-04 | 3.1 U | 0.00E+00 | 59 | 1.77E-04 | 300 | 9.02E-04 | 3.1 U | 0.00E+00 | 390 | 2.01E-03 |
| 12/14/2011 | | 5339 | 5339 | 200 | 890 | 3.68E-03 | 3.2 U | 0.00E+00 | 62 | 1.90E-04 | 3.2 U | 0.00E+00 | 64 | 1.92E-04 | 270 | 8.12E-04 | 3.2 U | 0.00E+00 | 350 | 1.80E-03 |
| 1/19/2012 | | 5958 | 5958 | 0 | 540 | 0.00E+00 | 2.8 U | 0.00E+00 | 17 | 0.00E+00 | 2.8 U | 0.00E+00 | 9.9 | 0.00E+00 | 69 | 0.00E+00 | 2.8 U | 0.00E+00 | 78 | 0.00E+00 |
| 2/15/2012 | | 6364 | 6364 | 0 | 990 | 0.00E+00 | 4.1 U | 0.00E+00 | 24 | 0.00E+00 | 4.1 U | 0.00E+00 | 100 | 0.00E+00 | 230 | 0.00E+00 | 4.1 U | 0.00E+00 | 150 | 0.00E+00 |
| 3/15/2012 | | 6942 | 6942 | 0 | 1100 | 0.00E+00 | 3.8 U | 0.00E+00 | 43 | 0.00E+00 | 3.8 U | 0.00E+00 | 20 | 0.00E+00 | 220 | 0.00E+00 | 3.8 U | 0.00E+00 | 140 | 0.00E+00 |
| 4/19/2012 | | 7625 | 7625 | 80 | 650 | 1.08E-03 | 2.4 U | 0.00E+00 | 28 | 3.44E-05 | 2.4 U | 0.00E+00 | 8.1 | 9.74E-06 | 130 | 1.56E-04 | 2.4 U | 0.00E+00 | 100 | 2.06E-04 |
| 5/16/2012 | | 8138 | 8138 | 200 | 650 | 2.69E-03 | 2.0 U | 0.00E+00 | 28 | 8.59E-05 | 2.0 U | 0.00E+00 | 8.9 | 2.68E-05 | 110 | 3.31E-04 | 2.0 U | 0.00E+00 | 130 | 6.68E-04 |
| Pulse-off period June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | | | | | |
| 8/14/2012 | | 8541 | 8541 | 360 | 710 | 3.23E-03 | 2.5 U | 0.00E+00 | 44 | 1.49E-04 | 2.5 U | 0.00E+00 | 11 | 3.64E-05 | 110 | 3.64E-04 | 2.5 U | 0.00E+00 | 540 | 3.05E-03 |
| 9/17/2012 | | 9029 | 9029 | 360 | 2000 | 8.27E-03 | 8.0 U | 0.00E+00 | 29 | 8.90E-05 | 8.0 U | 0.00E+00 | 19 | 5.71E-05 | 42 | 1.26E-04 | 8.0 U | 0.00E+00 | 190 | 9.77E-04 |
| Pulse-off period September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | | | | | | |
| 11/15/2012 | | 9033 | 9033 | 220 | 1200 | 5.46E-03 | 4.4 U | 0.00E+00 | 19 | 6.41E-05 | 4.4 U | 0.00E+00 | 33 | 1.09E-04 | 8 | 2.65E-05 | 4.4 U | 0.00E+00 | 55 | 3.11E-04 |
| 12/14/2012 | | 9436 | 9436 | 200 | 1200 | 4.96E-03 | 4.8 U | 0.00E+00 | 35 | 1.07E-04 | 4.8 U | 0.00E+00 | 16 | 4.81E-05 | 37 | 1.11E-04 | 4.8 U | 0.00E+00 | 61 | 3.14E-04 |
| Pulse-off period December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | | | | | | |
| 2/26/2013 | | 9511 | 9511 | 440 | 70 | 6.37E-04 | 6.8 U | 0.00E+00 | 6.8 U | 0.00E+00 | 6.8 U | 0.00E+00 | 6.8 U | 0.00E+00 | 6.8 U | 0.00E+00 | 6.8 U | 0.00E+00 | 6.8 U | 0.00E+00 |
| 4/11/2013 | | 9952 | 9952 | 420 | 1600 | 1.39E-02 | 8 | 6.95E-05 | 160 | 1.03E-03 | 5.1 U | 0.00E+00 | 20 | 1.26E-04 | 88 | 5.56E-04 | 5.1 U | 0.00E+00 | 320 | 3.46E-03 |
| Pulse-off period April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | | | | | | |
| 5/10/2013 | | 9958 | 9958 | 420 | 1200 | 1.04E-02 | 5.4 U | 0.00E+00 | 86 | 5.54E-04 | 5.4 U | 0.00E+00 | 12 | 7.57E-05 | 45 | 2.84E-04 | | | | |

Table 4.5
Cell 5 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 5 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 5 Run Time (hr) | SVE Flow Rate (scfm) | Trichloroethene | | Vinyl chloride | | Methylene Chloride | | Carbon Tetrachloride | | Chloroform | | Chloroethane | | Benzene | | Toluene | |
|---|-------------|-------------------|----------------------|----------------------|-----------------|---------------------------|----------------|---------------------------|--------------------|---------------------------|----------------------|---------------------------|-------------|---------------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| 3/11/2011 | | 218 | 218 | 360 | 1400 | 1.03E-02 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 420 U | 0.00E+00 | 100 U | 0.00E+00 | 350 | 1.80E-03 |
| 3/18/2011 | | 362 | 362 | 360 | 1100 | 8.07E-03 | 52 U | 0.00E+00 | 52 U | 0.00E+00 | 52 U | 0.00E+00 | 52 U | 0.00E+00 | 210 U | 0.00E+00 | 52 U | 0.00E+00 | 120 JB | 6.17E-04 |
| 3/25/2011 | | 459 | 459 | 360 | 760 | 5.57E-03 | 30 U | 0.00E+00 | 33 | 1.56E-04 | 30 U | 0.00E+00 | 30 U | 0.00E+00 | 120 U | 0.00E+00 | 30 U | 0.00E+00 | 73 | 3.75E-04 |
| 3/30/2011 | | 553 | 553 | 360 | 420 * | 3.08E-03 | 13 U | 0.00E+00 | 13 U | 0.00E+00 | 13 U | 0.00E+00 | 13 U | 0.00E+00 | 51 U | 0.00E+00 | 13 U | 0.00E+00 | 37 | 1.90E-04 |
| 4/8/2011 | | 759 | 759 | 360 | 560 | 4.11E-03 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 81 U | 0.00E+00 | 20 U | 0.00E+00 | 57 | 2.93E-04 |
| 4/15/2011 | | 920 | 920 | 360 | 560 | 4.11E-03 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 20 U | 0.00E+00 | 81 U | 0.00E+00 | 20 U | 0.00E+00 | 85 | 4.37E-04 |
| 5/19/2011 | | 1681 | 1681 | 330 | 360 | 2.42E-03 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 47 U | 0.00E+00 | 12 U | 0.00E+00 | 120 | 5.66E-04 |
| 6/16/2011 | | 2187 | 2187 | 300 | 180 | 1.10E-03 | 7.8 U | 0.00E+00 | 7.8 U | 0.00E+00 | 7.8 U | 0.00E+00 | 7.8 U | 0.00E+00 | 31 U | 0.00E+00 | 12 | 4.36E-05 | 7.8 U | 0.00E+00 |
| 7/15/2011 | | 2745 | 2745 | 220 | 280 | 1.25E-03 | 7.6 U | 0.00E+00 | 20 | 5.79E-05 | 7.6 U | 0.00E+00 | 7.6 U | 0.00E+00 | 30 U | 0.00E+00 | 7.6 U | 0.00E+00 | 49 | 1.54E-04 |
| 8/22/2011 | | 3129 | 3129 | 260 | 160 | 8.47E-04 | 5.0 U | 0.00E+00 | 5.0 U | 0.00E+00 | 5.0 U | 0.00E+00 | 5.0 U | 0.00E+00 | 20 U | 0.00E+00 | 7.6 | 2.39E-05 | 5.0 U | 0.00E+00 |
| 9/15/2011 | | 3626 | 3626 | 220 | 83 | 3.72E-04 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 4.5 U | 0.00E+00 | 18 U | 0.00E+00 | 5 | 1.33E-05 | 4.5 U | 0.00E+00 |
| 10/14/2011 | | 4222 | 4222 | 220 | 50 | 2.24E-04 | 3.9 U | 0.00E+00 | 3.9 U | 0.00E+00 | 3.9 U | 0.00E+00 | 3.9 U | 0.00E+00 | 16 U | 0.00E+00 | 3.9 U | 0.00E+00 | 3.9 U | 0.00E+00 |
| 11/21/2011 | Dup | 5015 | 5015 | 200 | 27 | 1.10E-04 | 3.2 U | 0.00E+00 | 32 U | 0.00E+00 | 3.2 U | 0.00E+00 | 3.2 U | 0.00E+00 | 13 U | 0.00E+00 | 3.2 U | 0.00E+00 | 3.2 U | 0.00E+00 |
| 11/21/2011 | Dup | 5015 | 5015 | 200 | 28 | 1.14E-04 | 3.1 U | 0.00E+00 | 31 U | 0.00E+00 | 3.1 U | 0.00E+00 | 3.1 U | 0.00E+00 | 12 U | 0.00E+00 | 3.1 U | 0.00E+00 | 3.1 U | 0.00E+00 |
| 12/14/2011 | | 5339 | 5339 | 200 | 24 | 9.78E-05 | 3.2 U | 0.00E+00 | 32 U | 0.00E+00 | 3.2 U | 0.00E+00 | 3.2 U | 0.00E+00 | 13 U | 0.00E+00 | 3.2 U | 0.00E+00 | 3.2 U | 0.00E+00 |
| 1/19/2012 | | 5958 | 5958 | 0 | 10 | 0.00E+00 | 2.8 U | 0.00E+00 | 2.8 U | 0.00E+00 | 2.8 U | 0.00E+00 | 2.8 U | 0.00E+00 | 11 U | 0.00E+00 | 2.8 U | 0.00E+00 | 2.8 U | 0.00E+00 |
| 2/15/2012 | | 6364 | 6364 | 0 | 19 | 0.00E+00 | 4.1 U | 0.00E+00 | 4.1 U | 0.00E+00 | 4.1 U | 0.00E+00 | 4.1 U | 0.00E+00 | 16 U | 0.00E+00 | 4.1 U | 0.00E+00 | 4.1 U | 0.00E+00 |
| 3/15/2012 | | 6942 | 6942 | 0 | 25 | 0.00E+00 | 3.8 U | 0.00E+00 | 3.8 U | 0.00E+00 | 3.8 U | 0.00E+00 | 3.8 U | 0.00E+00 | 15 U | 0.00E+00 | 3.8 U | 0.00E+00 | 3.8 U | 0.00E+00 |
| 4/19/2012 | | 7625 | 7625 | 80 | 19 | 3.10E-05 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 9.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 |
| 5/16/2012 | | 8138 | 8138 | 200 | 24 | 9.78E-05 | 2.0 U | 0.00E+00 | 2.0 U | 0.00E+00 | 2.0 U | 0.00E+00 | 2.0 U | 0.00E+00 | 7.9 U | 0.00E+00 | 2.0 U | 0.00E+00 | 2.0 U | 0.00E+00 |
| Pulse -off period June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | | | | | |
| 8/14/2012 | | 8541 | 8541 | 360 | 64 | 2.87E-04 | 2.5 U | 0.00E+00 | 25 U | 0.00E+00 | 2.5 U | 0.00E+00 | 2.5 U | 0.00E+00 | 9.9 U | 0.00E+00 | 2.5 U | 0.00E+00 | 2.5 U | 0.00E+00 |
| 9/17/2012 | | 9029 | 9029 | 360 | 71 | 2.89E-04 | 8.0 U | 0.00E+00 | 80 U | 0.00E+00 | 8.0 U | 0.00E+00 | 8.0 U | 0.00E+00 | 32 U | 0.00E+00 | 8.0 U | 0.00E+00 | 8.0 U | 0.00E+00 |
| Pulse -off period September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | | | | | | |
| 11/15/2012 | | 9033 | 9033 | 220 | 39 | 1.75E-04 | 4.4 U | 0.00E+00 | 44 U | 0.00E+00 | 4.4 U | 0.00E+00 | 4.4 U | 0.00E+00 | 18 U | 0.00E+00 | 4.4 U | 0.00E+00 | 4.4 U | 0.00E+00 |
| 12/14/2012 | | 9436 | 9436 | 200 | 60 | 2.44E-04 | 4.8 U | 0.00E+00 | 48 U | 0.00E+00 | 4.8 U | 0.00E+00 | 4.8 U | 0.00E+00 | 19 U | 0.00E+00 | 4.8 U | 0.00E+00 | 4.8 U | 0.00E+00 |
| Pulse -off period December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | | | | | | |
| 2/26/2013 | | 9511 | 9511 | 440 | 6.8 U | 0.00E+00 | 6.8 U | 0.00E+00 | 68 U | 0.00E+00 | 6.8 U | 0.00E+00 | 6.8 U | 0.00E+00 | 27 U | 0.00E+00 | 12 | 6.39E-05 | 6.8 U | 0.00E+00 |
| 4/11/2013 | | 9952 | 9952 | 420 | 110 | 9.41E-04 | 5.1 U | 0.00E+00 | 51 U | 0.00E+00 | 5.1 U | 0.00E+00 | 5.1 U | 0.00E+00 | 20 U | 0.00E+00 | 5.1 U | 0.00E+00 | 5.1 U | 0.00E+00 |
| Pulse -off period April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | | | | | | |
| 5/10/2013 | | 9958 | 9958 | 420 | 79 | 6.76E-04 | 5.4 U | 0.00E+00 | 54 U | 0.00E+00 | 5.4 U | 0.00E+00 | 5.4 U | 0.00E+00 | 22 U | 0.00E+00 | 5.4 U | 0.00E+00 | 5.4 U | 0.00E+00 |

Table 4.5
Cell 5 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 5 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 5 Run Time (hr) | SVE Flow Rate (scfm) | Ethylbenzene | | m&p-Xylenes | | o-Xylenes | | Acetone | | Methyl Ethyl Ketone (MEK) | | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) |
|--|-------------|-------------------|----------------------|----------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | | |
| 3/11/2011 | | 218 | 218 | 360 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 100 U | 0.00E+00 | 420 U | 0.00E+00 | 420 U | 0.00E+00 | 3.47E-01 | 75.54 |
| 3/18/2011 | | 362 | 362 | 360 | 52 U | 0.00E+00 | 59 | 3.50E-04 | 110 | 6.52E-04 | 210 U | 0.00E+00 | 210 U | 0.00E+00 | 2.03E-01 | 104.77 |
| 3/25/2011 | | 459 | 459 | 360 | 30 U | 0.00E+00 | 30 U | 0.00E+00 | 47 | 2.79E-04 | 130 | 4.21E-04 | 120 U | 0.00E+00 | 1.42E-01 | 118.53 |
| 3/30/2011 | | 553 | 553 | 360 | 16 | 9.48E-05 | 23 | 1.36E-04 | 46 | 2.73E-04 | 99 | 3.21E-04 | 51 U | 0.00E+00 | 8.47E-02 | 126.48 |
| 4/8/2011 | | 759 | 759 | 360 | 38 | 2.25E-04 | 84 | 4.98E-04 | 120 | 7.11E-04 | 81 U | 0.00E+00 | 81 U | 0.00E+00 | 1.01E-01 | 147.32 |
| 4/15/2011 | | 920 | 920 | 360 | 45 | 2.67E-04 | 160 | 9.48E-04 | 140 | 8.30E-04 | 180 J,B | 5.83E-04 | 81 U | 0.00E+00 | 9.17E-02 | 162.08 |
| 5/19/2011 | | 1681 | 1681 | 330 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 12 U | 0.00E+00 | 360 | 1.07E-03 | 47 U | 0.00E+00 | 9.44E-02 | 233.92 |
| 6/16/2011 | | 2187 | 2187 | 300 | 15 | 7.41E-05 | 54 | 2.67E-04 | 64 | 3.16E-04 | 69 J,B | 1.86E-04 | 31 U | 0.00E+00 | 3.49E-02 | 251.58 |
| 7/15/2011 | | 2745 | 2745 | 220 | 13 | 4.71E-05 | 120 | 4.35E-04 | 140 | 5.07E-04 | 94 | 1.86E-04 | 30 U | 0.00E+00 | 3.23E-02 | 269.61 |
| 8/22/2011 | | 3129 | 3129 | 260 | 5.9 | 2.52E-05 | 19 | 8.13E-05 | 29 | 1.24E-04 | 62 J,B | 1.45E-04 | 20 U | 0.00E+00 | 2.71E-02 | 280.03 |
| 9/15/2011 | | 3626 | 3626 | 220 | 4.5 U | 0.00E+00 | 14 | 5.07E-05 | 17 | 6.16E-05 | 49 | 9.71E-05 | 18 U | 0.00E+00 | 1.47E-02 | 287.36 |
| 10/14/2011 | | 4222 | 4222 | 220 | 3.9 U | 0.00E+00 | 7.1 | 2.57E-05 | 10 | 3.62E-05 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 1.03E-02 | 293.51 |
| 11/21/2011 | Dup | 5015 | 5015 | 200 | 3.2 U | 0.00E+00 | 4.5 | 1.48E-05 | 6.1 | 2.01E-05 | 36 | 6.48E-05 | 13 U | 0.00E+00 | 6.19E-03 | 298.43 |
| 11/21/2011 | Dup | 5015 | 5015 | 200 | 3.1 U | 0.00E+00 | 4.2 | 1.38E-05 | 6.2 | 2.04E-05 | 31 U | 0.00E+00 | 12 U | 0.00E+00 | 6.30E-03 | 298.51 |
| 12/14/2011 | | 5339 | 5339 | 200 | 3.2 U | 0.00E+00 | 3.2 U | 0.00E+00 | 3.2 U | 0.00E+00 | 32 UJ | 0.00E+00 | 13 U | 0.00E+00 | 6.77E-03 | 300.62 |
| 1/19/2012 | | 5958 | 5958 | 0 | 2.8 U | 0.00E+00 | 2.8 U | 0.00E+00 | 2.8 U | 0.00E+00 | 11 U | 0.00E+00 | 11 U | 0.00E+00 | 0.00E+00 | 300.62 |
| 2/15/2012 | | 6364 | 6364 | 0 | 4.1 U | 0.00E+00 | 4.1 U | 0.00E+00 | 4.1 U | 0.00E+00 | 16 U | 0.00E+00 | 16 U | 0.00E+00 | 0.00E+00 | 300.62 |
| 3/15/2012 | | 6942 | 6942 | 0 | 3.8 U | 0.00E+00 | 3.8 U | 0.00E+00 | 3.8 U | 0.00E+00 | 15 U | 0.00E+00 | 15 U | 0.00E+00 | 0.00E+00 | 300.62 |
| 4/19/2012 | | 7625 | 7625 | 80 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 9.4 U | 0.00E+00 | 9.4 U | 0.00E+00 | 1.51E-03 | 301.65 |
| 5/16/2012 | | 8138 | 8138 | 200 | 2.0 U | 0.00E+00 | 2.0 U | 0.00E+00 | 2.0 U | 0.00E+00 | 7.9 U | 0.00E+00 | 7.9 U | 0.00E+00 | 3.90E-03 | 303.65 |
| Pulse -off period June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | |
| 8/14/2012 | | 8541 | 8541 | 360 | 2.5 U | 0.00E+00 | 2.5 U | 0.00E+00 | 2.5 U | 0.00E+00 | 25 U | 0.00E+00 | 9.9 U | 0.00E+00 | 7.12E-03 | 306.52 |
| 9/17/2012 | | 9029 | 9029 | 360 | 8.0 U | 0.00E+00 | 8.0 U | 0.00E+00 | 8.0 U | 0.00E+00 | 80 U | 0.00E+00 | 32 U | 0.00E+00 | 9.81E-03 | 311.31 |
| Pulse -off period September 17, 2012 to November 15, 2012 | | | | | | | | | | | | | | | | |
| 11/15/2012 | | 9033 | 9033 | 220 | 4.4 U | 0.00E+00 | 4.4 U | 0.00E+00 | 4.4 U | 0.00E+00 | 44 U | 0.00E+00 | 18 U | 0.00E+00 | 6.15E-03 | 311.34 |
| 12/14/2012 | | 9436 | 9436 | 200 | 4.8 U | 0.00E+00 | 4.8 U | 0.00E+00 | 4.8 U | 0.00E+00 | 48 U | 0.00E+00 | 19 U | 0.00E+00 | 5.79E-03 | 313.67 |
| Pulse -off period December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | | |
| 2/26/2013 | | 9511 | 9511 | 440 | 6.8 U | 0.00E+00 | 6.8 U | 0.00E+00 | 6.8 U | 0.00E+00 | 68 U | 0.00E+00 | 27 U | 0.00E+00 | 7.01E-04 | 313.72 |
| 4/11/2013 | | 9952 | 9952 | 420 | 5.1 U | 0.00E+00 | 5.1 U | 0.00E+00 | 5.1 U | 0.00E+00 | 51 U | 0.00E+00 | 20 U | 0.00E+00 | 2.01E-02 | 322.58 |
| Pulse -off period April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | | |
| 5/10/2013 | | 9958 | 9958 | 420 | 5.4 U | 0.00E+00 | 5.4 U | 0.00E+00 | 5.4 U | 0.00E+00 | 54 U | 0.00E+00 | 22 U | 0.00E+00 | 1.44E-02 | 322.66 |
| 7/15/2013 | | 10984 | 10984 | 360 | 4.7 U | 0.00E+00 | 4.7 U | 0.00E+00 | 4.7 U | 0.00E+00 | 47 U | 0.00E+00 | 19 U | 0.00E+00 | 1.65E-02 | 339.59 |
| Pulse -off period July 15, 2013 to September 9, 2013 | | | | | | | | | | | | | | | | |
| 9/9/2013 | | 10991 | 10991 | 380 | 4 U | 0.00E+00 | 4 U | 0.00E+00 | 4 U | 0.00E+00 | 40 U | 0.00E+00 | 40 U | 0.00E+00 | 8.81E-03 | 339.65 |
| 11/18/2013 | | 12069 | 12069 | 380 | 7.6 U | 0.00E+00 | 7.6 U | 0.00E+00 | 7.6 U | 0.00E+00 | 76 U | 0.00E+00 | 31 U | 0.00E+00 | 1.58E-02 | 356.69 |
| Pulse -off period November 18, 2013 to January 15, 2014 | | | | | | | | | | | | | | | | |
| 1/15/2014 | | 12074 | 12074 | 380 | 3.5 U | 0.00E+00 | 3.5 U | 0.00E+00 | 3.5 U | 0.00E+00 | 35 U | 0.00E+00 | 14 U | 0.00E+00 | 8.88E-03 | 356.73 |
| 3/14/2014 | | 13057 | 13057 | 380 | 7.8 U | 0.00E+00 | 7.8 U | 0.00E+00 | 7.8 U | 0.00E+00 | 78 U | 0.00E+00 | 31 U | 0.00E+00 | 1.24E-02 | 368.96 |
| Pulse -off period March 14, 2014 to May 15, 2014 | | | | | | | | | | | | | | | | |
| 5/15/2014 | | 13063 | 13063 | | | | | | | | | | | | | |

Table 4.5
Cell 5 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 5 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 5 Run Time (hr) | SVE Flow Rate (scfm) | 1,1,1-Trichloroethane | | 1,1,2-Trichloroethane | | 1,1-Dichloroethane | | 1,2-Dichloroethane | | 1,1-Dichloroethene | | cis-1,2-Dichloroethene | | trans-1,2-Dichloroethene | | Tetrachloroethene | |
|---|-------------|-------------------|----------------------|----------------------|-----------------------|---------------------------|-----------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|--------------------|---------------------------|------------------------|---------------------------|--------------------------|---------------------------|-------------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| Pulse-off period July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | | | | | | |
| 9/16/2014 | | 14721 | 14715 | 120 | 470 | 1.17E-03 | 2.3 U | 0.00E+00 | 10 | 1.84E-05 | 2.3 U | 0.00E+00 | 4.8 | 8.66E-06 | 6.9 | 1.24E-05 | 2.3 U | 0.00E+00 | 79 | 2.44E-04 |
| 11/14/2014 | | 16095 | 16095 | 290 | 660 | 3.96E-03 | 2.4 U | 0.00E+00 | 15 | 6.67E-05 | 2.4 U | 0.00E+00 | 8.5 | 3.70E-05 | 19 | 8.28E-05 | 2.4 U | 0.00E+00 | 32 | 2.39E-04 |
| Pulse-off period November 14, 2014 to January 9, 2015 | | | | | * | | | | | | | | | | | | | | | |
| 1/9/2015 | | 16102 | 16102 | 180 | 360 | 1.34E-03 | 1.1 U | 0.00E+00 | 4.6 | 1.27E-05 | 1.1 U | 0.00E+00 | 4.0 | 1.08E-05 | 7.2 | 1.95E-05 | 1.1 U | 0.00E+00 | 12 | 5.55E-05 |
| 3/13/2015 | | 17322 | 17322 | 260 | 660 | 3.55E-03 | 2.4 U | 0.00E+00 | 22 | 8.78E-05 | 2.4 U | 0.00E+00 | 8.0 | 3.13E-05 | 16 | 6.25E-05 | 2.4 U | 0.00E+00 | 29 | 1.94E-04 |
| Pulse-off period March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | | | | | | |
| 5/15/2015 | | 17329 | 17329 | 260 | 360 | 1.94E-03 | 1.1 U | 0.00E+00 | 7.3 | 2.91E-05 | 1.1 U | 0.00E+00 | 2.5 | 9.77E-06 | 5.9 | 2.31E-05 | 1.1 U | 0.00E+00 | 31 | 2.07E-04 |
| 7/16/2015 | | 18578 | 18578 | 180 | 260 | 9.68E-04 | 1.2 U | 0.00E+00 | 22 | 6.08E-05 | 1.2 U | 0.00E+00 | 3.5 | 9.47E-06 | 12 | 3.25E-05 | 1.2 U | 0.00E+00 | 54 | 2.50E-04 |
| Pulse-off period July 16, 2015 to September 22, 2015 | | | | | | | | | | | | | | | | | | | | |
| 9/22/2015 | | 18580 | 18580 | 160 | 150 | 4.96E-04 | 1.2 U | 0.00E+00 | 4.2 | 1.03E-05 | 1.2 U | 0.00E+00 | 1.2 | 2.89E-06 | 2.4 | 5.77E-06 | 1.2 U | 0.00E+00 | 47 | 1.93E-04 |
| 11/20/2015 | | 19973 | 19973 | 230 | 320 | 1.52E-03 | 1.2 U | 0.00E+00 | 26 | 9.17E-05 | 1.2 U | 0.00E+00 | 5.5 | 1.90E-05 | 13 | 4.49E-05 | 1.2 U | 0.00E+00 | 50 | 2.96E-04 |
| Pulse-off period November 20, 2015 to January 19, 2016 | | | | | | | | | | | | | | | | | | | | |
| 1/19/2016 | | 19982 | 19982 | 180 | 78 | 2.90E-04 | 1.1 U | 0.00E+00 | 1.9 | 5.25E-06 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.3 | 3.52E-06 | 1.1 U | 0.00E+00 | 10 | 4.63E-05 |
| 3/18/2016 | | 21229 | 21229 | 260 | 340 | 1.83E-03 | 1.1 U | 0.00E+00 | 21 | 8.38E-05 | 1.1 U | 0.00E+00 | 5.4 | 2.11E-05 | 11 | 4.30E-05 | 1.1 U | 0.00E+00 | 30 | 2.01E-04 |

Notes:

Mass removal rate = (flow rate in scfm)(concentration in ppmv)(60)(MW) / (387*1000000)

"U" indicates non-detection at the specified reporting limit; for ND compounds, zero is used in mass removal calculations.

MW molecular weight (values from the U.S. National Library of Medicine)

SCFM standard cubic feet per minute

J Indicates estimated value.

B The analyte was detected in the method, field and/or trip blank.

When a duplicate sample was collected, the original sample results are used in the mass calculations.

Table 4.5
Cell 5 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 5 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 5 Run Time (hr) | SVE Flow Rate (scfm) | Trichloroethene | | Vinyl chloride | | Methylene Chloride | | Carbon Tetrachloride | | Chloroform | | Chloroethane | | Benzene | | Toluene | |
|--|-------------|-------------------|----------------------|----------------------|-----------------|---------------------------|----------------|---------------------------|--------------------|---------------------------|----------------------|---------------------------|-------------|---------------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) |
| Pulse -off period July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | | | | | | |
| 9/16/2014 | | 14721 | 14715 | 120 | 22 | 5.38E-05 | 2.3 U | 0.00E+00 | 23 U | 0.00E+00 | 2.3 U | 0.00E+00 | 2.3 U | 0.00E+00 | 9.4 U | 0.00E+00 | 6.4 | 9.30E-06 | 2.3 U | 0.00E+00 |
| 11/14/2014 | | 16095 | 16095 | 290 | 11 | 6.50E-05 | 2.4 U | 0.00E+00 | 24 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 9.7 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 |
| Pulse -off period November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | | | | | | |
| 1/9/2015 | | 16102 | 16102 | 180 | 4.9 | 1.80E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.6 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 3/13/2015 | | 17322 | 17322 | 260 | 12 | 6.36E-05 | 2.4 U | 0.00E+00 | 24 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 | 9.5 U | 0.00E+00 | 2.4 U | 0.00E+00 | 2.4 U | 0.00E+00 |
| Pulse -off period March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | | | | | | |
| 5/15/2015 | | 17329 | 17329 | 260 | 8.2 | 4.34E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.5 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.4 | 5.20E-06 |
| 7/16/2015 | | 18578 | 18578 | 180 | 14 | 5.13E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period July 16, 2015 to September 22, 2015 | | | | | | | | | | | | | | | | | | | | |
| 9/22/2015 | | 18580 | 18580 | 160 | 11 | 3.59E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.9 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| 11/20/2015 | | 19973 | 19973 | 230 | 11 | 5.15E-05 | 1.2 U | 0.00E+00 | 12 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 | 4.7 U | 0.00E+00 | 1.2 U | 0.00E+00 | 1.2 U | 0.00E+00 |
| Pulse -off period November 20, 2015 to January 19, 2016 | | | | | | | | | | | | | | | | | | | | |
| 1/19/2016 | | 19982 | 19982 | 180 | 2 | 7.33E-06 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.3 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |
| 3/18/2016 | | 21229 | 21229 | 260 | 8.5 | 4.50E-05 | 1.1 U | 0.00E+00 | 11 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 | 4.3 U | 0.00E+00 | 1.1 U | 0.00E+00 | 1.1 U | 0.00E+00 |

Notes:

Mass removal rate = (flow rate in scfm)(concentration in ppmv)(60)(MW) / (387*1000000)

"U" indicates non-detection at the specified reporting limit; for ND compounds, zero is used in mass removal calculations.

MW molecular weight (values from the U.S. National Library of Medicine)

SCFM standard cubic feet per minute

J Indicates estimated value.

B The analyte was detected in the method, field and/or trip blank.

When a duplicate sample was collected, the original sample results are used in the mass calculations.

Table 4.5
Cell 5 - Phase 2 SVE System Effluent Data
March 2011 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

CELL 5 SVE EFFLUENT

| Date | Sample Type | SVE Run Time (hr) | Cell 5 Run Time (hr) | SVE Flow Rate (scfm) | Ethylbenzene | | m&p-Xylenes | | o-Xylenes | | Acetone | | Methyl Ethyl Ketone (MEK) | | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) |
|---|-------------|-------------------|----------------------|----------------------|--------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|---------------------------|---------------------------|---------------------------|------------------------------|
| | | | | | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | Conc (ppbv) | Mass Removal Rate (lb/hr) | | |
| Pulse-off period July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | | |
| 9/16/2014 | | 14721 | 14715 | 120 | 23 U | 0 00E+00 | 23 U | 0 00E+00 | 23 U | 0 00E+00 | 32 | 3 46E-05 | 9 4'U | 0 00E+00 | 1 55E-03 | 371 61 |
| 11/14/2014 | | 16095 | 16095 | 290 | 24 U | 0 00E+00 | 24 U | 0 00E+00 | 28 | 1 34E-05 | 24 U | 0 00E+00 | 9 7 U | 0 00E+00 | 4 46E-03 | 377 77 |
| Pulse-off period November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | | |
| 1/9/2015 | | 16102 | 16102 | 180 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 4 6 U | 0 00E+00 | 1 46E-03 | 377 78 |
| 3/13/2015 | | 17322 | 17322 | 260 | 24 U | 0 00E+00 | 24 U | 0 00E+00 | 24 U | 0 00E+00 | 24 U | 0 00E+00 | 9 5 U | 0 00E+00 | 3 99E-03 | 382 64 |
| Pulse-off period March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | | |
| 5/15/2015 | | 17328 | 17329 | 260 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 4 5 U | 0 00E+00 | 2 25E-03 | 382 68 |
| 7/16/2015 | | 18578 | 18578 | 180 | 12 U | 0 00E+00 | 12 U | 0 00E+00 | 12 U | 0 00E+00 | 12 U | 0 00E+00 | 4 7 U | 0 00E+00 | 1 37E-03 | 384 37 |
| Pulse-off period July 16, 2015 to September 22, 2015 | | | | | | | | | | | | | | | | |
| 9/22/2015 | | 18580 | 18580 | 160 | 12 U | 0 00E+00 | 12 U | 0 00E+00 | 12 U | 0 00E+00 | 12 U | 0 00E+00 | 4 9 U | 0 00E+00 | 7 45E-04 | 384 37 |
| 11/20/2015 | | 19973 | 19973 | 230 | 12 U | 0 00E+00 | 12 U | 0 00E+00 | 12 U | 0 00E+00 | 12 U | 0 00E+00 | 4 7 U | 0 00E+00 | 2 03E-03 | 387 19 |
| Pulse-off period November 20, 2015 to January 19, 2016 | | | | | | | | | | | | | | | | |
| 1/19/2016 | | 19982 | 19982 | 180 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 4 3 U | 0 00E+00 | 3 53E-04 | 387 20 |
| 3/18/2016 | | 21228 | 21229 | 260 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 11 U | 0 00E+00 | 4 3 U | 0 00E+00 | 2 22E-03 | 389 97 |

Notes:

Mass removal rate = (flow rate in scfm)(concentration in ppmv)(60)(MW) / (387*1000000)

"U" Indicates non-detection at the specified reporting limit, for ND compounds, zero is used in mass removal calculations

MW molecular weight (values from the U.S. National Library of Medicine)

SCFM standard cubic feet per minute

J Indicates estimated value

B The analyte was detected in the method, field and/or trip blank

When a duplicate sample was collected, the original sample results are used in the mass calculations

Table 4.6
Mass Removal - Phase 1 and Phase 2 AS/SVE Systems
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

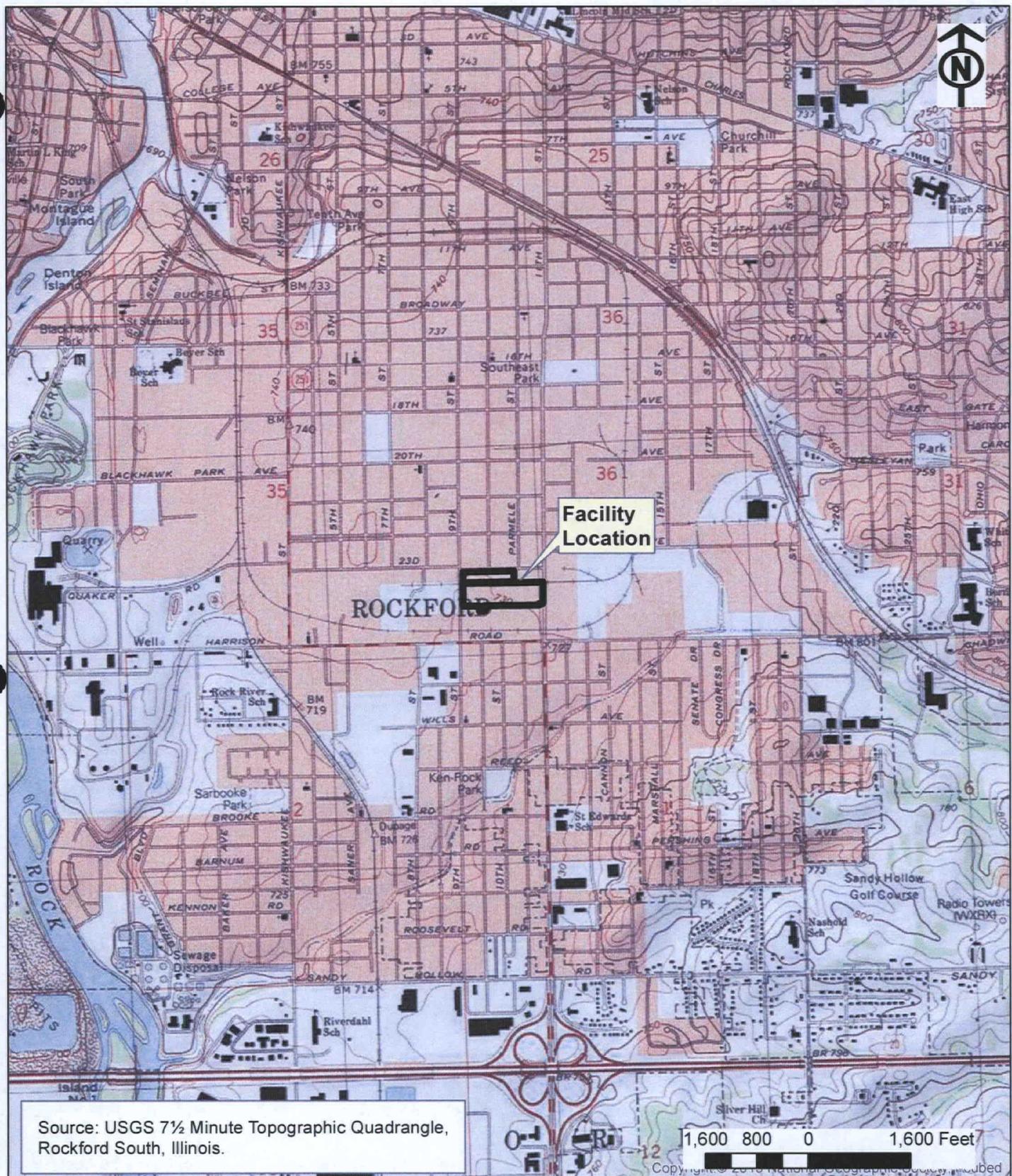
| Date | Cell 1 | | | Cell 2 | | | Cell 3 | | | Cell 4 | | | Cell 5 | | | Total Cumulative Mass Removal (lb) |
|------------|---------------------|---------------------------|------------------------------|---------------|---------------------------|------------------------------|---------------|---------------------------|------------------------------|---------------|---------------------------|------------------------------|---------------|---------------------------|------------------------------|------------------------------------|
| | Total Run Time (hr) | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) | Run Time (hr) | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) | Run Time (hr) | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) | Run Time (hr) | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) | Run Time (hr) | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) | |
| 12/3/2009 | 0 | | | | | | | | | | | | | | | 0.00 |
| 12/10/2009 | 53 | 0.22 | 11.91 | | | | | | | | | | | | | 11.91 |
| 12/11/2009 | | | | 59 | 0.25 | 15.05 | | | | | | | | | | 26.97 |
| 12/14/2009 | | | | | | | | 60 | 0.31 | 18.51 | | | | | | 45.48 |
| 12/15/2009 | | | | 68 | 0.16 | 16.48 | | | | | | | | | | 46.91 |
| 12/16/2009 | | | | | | | | 76 | 0.17 | 21.16 | | | | | | 49.55 |
| 12/22/2009 | 124 | 0.05 | 15.23 | | | | | | | | | | | | | 52.86 |
| 12/29/2009 | | | | 180 | 0.12 | 29.76 | | | | | | | | | | 66.15 |
| 1/5/2010 | | | | | | | | 236 | 0.13 | 41.78 | | | | | | 86.77 |
| 1/13/2010 | | | | 301 | 0.05 | 35.75 | | | | | | | | | | 92.75 |
| 1/21/2010 | | | | | | | | 361 | 0.05 | 48.37 | | | | | | 99.35 |
| 1/27/2010 | | | | 408 | 0.06 | 42.68 | | | | | | | | | | 106.27 |
| 2/24/2010 | 631 | 0.01 | 20.06 | 631 | 0.04 | 51.44 | 631 | 0.04 | 58.76 | | | | | | | 130.26 |
| 3/15/2010 | 782 | 0.01 | 22.02 | 782 | 0.09 | 64.40 | 782 | 0.07 | 68.60 | | | | | | | 155.02 |
| 4/14/2010 | 935 | 0.02 | 25.22 | 935 | 0.04 | 70.89 | 935 | 0.11 | 84.81 | | | | | | | 180.92 |
| 5/13/2010 | 1165 | 0.01 | 27.75 | 1165 | 0.04 | 79.74 | 1165 | 0.03 | 91.21 | | | | | | | 198.69 |
| 6/21/2010 | 1477 | 0.01 | 30.20 | 1477 | 0.02 | 86.90 | 1477 | 0.02 | 96.92 | | | | | | | 214.02 |
| 7/21/2010 | 1686 | 0.01 | 32.52 | 1686 | 0.02 | 91.24 | 1686 | 0.02 | 101.05 | | | | | | | 224.81 |
| 8/23/2010 | 1928 | 0.00 | 32.52 | 1928 | 0.00 | 91.24 | 1928 | 0.00 | 101.05 | | | | | | | 224.81 |
| 9/23/2010 | 2174 | 0.01 | 34.49 | 2174 | 0.02 | 96.27 | 2174 | 0.02 | 106.49 | | | | | | | 237.25 |
| 10/22/2010 | 2406 | 0.01 | 35.86 | 2406 | 0.01 | 98.85 | 2406 | 0.01 | 109.27 | | | | | | | 243.98 |
| 11/15/2010 | 2598 | 0.01 | 36.96 | 2598 | 0.01 | 101.41 | 2598 | 0.01 | 112.05 | | | | | | | 250.42 |
| 12/22/2010 | 2777 | 0.01 | 38.22 | 2955 | 0.02 | 107.99 | 2777 | 0.02 | 115.44 | | | | | | | 261.65 |
| 1/24/2011 | 2975 | 0.01 | 39.47 | 3352 | 0.01 | 110.39 | 2975 | 0.01 | 117.20 | | | | | | | 267.06 |
| 2/25/2011 | 3167 | 0.01 | 40.53 | 3737 | 0.01 | 114.08 | 3167 | 0.00 | 118.15 | | | | | | | 272.76 |
| 3/11/2011 | | | | | | | | | | 222 | 1.72 | 381.87 | 218 | 0.35 | 75.54 | 730.17 |
| 3/18/2011 | 3293 | 0.01 | 41.27 | 3988 | 0.00 | 114.57 | 3293 | 0.00 | 118.34 | 366 | 0.51 | 453.50 | 362 | 0.20 | 104.77 | 832.46 |
| 3/25/2011 | | | | | | | | | | 463 | 0.29 | 482.07 | 459 | 0.14 | 118.53 | 874.78 |
| 3/30/2011 | | | | | | | | | | 558 | 0.32 | 512.25 | 553 | 0.08 | 126.48 | 912.92 |
| 4/8/2011 | | | | | | | | | | 764 | 0.29 | 572.27 | 759 | 0.10 | 147.32 | 993.77 |
| 4/15/2011 | 3460 | 0.01 | 42.15 | 4322 | 0.00 | 115.07 | 3460 | 0.00 | 118.47 | 924 | 0.24 | 610.05 | 920 | 0.09 | 162.08 | 1047.81 |
| 5/19/2011 | 3665 | 0.00 | 42.87 | 4732 | 0.00 | 115.31 | 3665 | 0.00 | 118.53 | 1685 | 0.16 | 730.28 | 1681 | 0.09 | 233.92 | 1240.92 |
| 6/16/2011 | 3830 | 0.00 | 43.39 | 5062 | 0.00 | 115.55 | 3830 | 0.00 | 118.81 | 2191 | 0.11 | 753.86 | 2187 | 0.03 | 251.58 | 1283.20 |
| 7/15/2011 | 4472 | 0.00 | 44.96 | 4472 | 0.00 | 115.18 | 4472 | 0.00 | 119.39 | 2750 | 0.08 | 830.85 | 2745 | 0.03 | 269.61 | 1380.36 |
| 8/22/2011 | 4775 | 0.00 | 45.59 | 4775 | 0.00 | 115.40 | 4775 | 0.01 | 121.30 | 3133 | 0.10 | 868.97 | 3129 | 0.03 | 280.03 | 1431.44 |
| 9/15/2011 | 4968 | 0.00 | 45.93 | 4968 | 0.00 | 115.51 | 4968 | 0.00 | 121.91 | 3630 | 0.08 | 906.88 | 3626 | 0.01 | 287.36 | 1477.64 |
| 10/14/2011 | 5199 | 0.00 | 46.20 | 5199 | 0.00 | 115.57 | 5199 | 0.00 | 122.54 | 4226 | 0.05 | 935.35 | 4222 | 0.01 | 293.51 | 1513.18 |
| 11/21/2011 | 5503 | 0.00 | 46.43 | 5503 | 0.00 | 115.62 | 5503 | 0.00 | 123.00 | 5019 | 0.04 | 966.50 | 5015 | 0.01 | 298.43 | 1549.98 |
| 12/14/2011 | 5670 | 0.00 | 46.53 | 5670 | 0.00 | 115.65 | 5670 | 0.00 | 123.67 | 5343 | 0.03 | 975.34 | 5339 | 0.01 | 300.62 | 1561.80 |
| 1/19/2012 | 5974 | 0.00 | 46.69 | 5974 | 0.00 | 115.71 | 5974 | 0.00 | 124.59 | 5993 | 0.00 | 975.34 | 5958 | 0.00 | 300.62 | 1562.94 |
| 2/15/2012 | 6189 | 0.00 | 46.80 | 6189 | 0.00 | 115.74 | 6189 | 0.01 | 126.03 | 6368 | 0.03 | 986.48 | 6364 | 0.00 | 300.62 | 1575.67 |
| 3/15/2012 | 6421 | 0.00 | 46.89 | 6421 | 0.00 | 115.79 | 6421 | 0.01 | 127.43 | 6946 | 0.03 | 1005.89 | 6942 | 0.00 | 300.62 | 1596.62 |
| 4/19/2012 | 6701 | 0.00 | 47.04 | 6701 | 0.00 | 115.84 | 6701 | 0.00 | 128.02 | 7629 | 0.05 | 1038.74 | 7625 | 0.00 | 301.65 | 1631.30 |
| 5/16/2012 | 6916 | 0.00 | 47.18 | 6916 | 0.00 | 115.88 | 6916 | 0.00 | 128.27 | 8143 | 0.04 | 1060.30 | 8138 | 0.00 | 303.65 | 1655.28 |

Table 4.6
Mass Removal - Phase 1 and Phase 2 AS/SVE Systems
December 2009 - March 2016
Hamilton Sundstrand Corporation
Plants 1/2 Facility
Rockford, Illinois

| Date | Cell 1 | | | Cell 2 | | | Cell 3 | | | Cell 4 | | | Cell 5 | | | Total Cumulative Mass Removal (lb) |
|--|---------------------|---------------------------|------------------------------|---------------|---------------------------|------------------------------|---------------|---------------------------|------------------------------|---------------|---------------------------|------------------------------|---------------|---------------------------|------------------------------|------------------------------------|
| | Total Run Time (hr) | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) | Run Time (hr) | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) | Run Time (hr) | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) | Run Time (hr) | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) | Run Time (hr) | Mass Removal Rate (lb/hr) | Cumulative Mass Removal (lb) | |
| Pulse -off period June 1, 2012 to August 14, 2012 | | | | | | | | | | | | | | | | |
| 8/14/2012 | 7094 | 0.00 | 47.54 | 7094 | 0.00 | 116.20 | 7094 | 0.00 | 129.03 | 8546 | 0.05 | 1081.05 | 8541 | 0.01 | 306.52 | 1680.34 |
| 9/17/2012 | 7317 | 0.00 | 47.99 | 7317 | 0.00 | 116.40 | 7317 | 0.02 | 133.04 | 9033 | 0.04 | 1102.58 | 9029 | 0.01 | 311.31 | 1711.33 |
| Pulse -off period September 17, 2012 to November 14, 2012 | | | | | | | | | | | | | | | | |
| 11/15/2012 | 7320 | 0.00 | 48.00 | 7320 | 0.00 | 116.40 | 7320 | 0.00 | 133.05 | 9037 | 0.05 | 1102.78 | 9033 | 0.01 | 311.34 | 1711.56 |
| 12/14/2012 | 7518 | 0.00 | 48.24 | 7518 | 0.00 | 116.86 | 7518 | 0.00 | 133.94 | 9439 | 0.00 | 1103.57 | 9436 | 0.01 | 313.67 | 1716.27 |
| Pulse -off period December 14, 2012 to February 26, 2013 | | | | | | | | | | | | | | | | |
| 2/26/2013 | 7518 | 0.00 | 48.19 | 7518 | 0.00 | 116.86 | 7519 | 0.00 | 133.94 | 9439 | 0.00 | 1103.57 | 9511 | 0.00 | 313.72 | 1716.32 |
| 4/11/2013 | 7723 | 0.00 | 48.32 | 7723 | 0.00 | 116.97 | 8134 | 0.00 | 134.40 | 9876 | 0.00 | 1105.48 | 9952 | 0.02 | 322.58 | 1727.74 |
| Pulse -off period April 11, 2013 to May 10, 2013 | | | | | | | | | | | | | | | | |
| 5/10/2013 | 7724 | 0.00 | 48.32 | 7724 | 0.00 | 116.97 | 8135 | 0.00 | 134.40 | 9882 | 0.00 | 1105.50 | 9958 | 0.01 | 322.66 | 1727.85 |
| 7/15/2013 | 8039 | 0.00 | 48.86 | 8039 | 0.00 | 117.21 | 9082 | 0.00 | 134.70 | 10907 | 0.00 | 1108.40 | 10984 | 0.02 | 339.59 | 1748.76 |
| Pulse -off period July 15, 2013 to September 9, 2013 | | | | | | | | | | | | | | | | |
| 9/9/2013 | 8040 | 0.00 | 48.86 | 8040 | 0.00 | 117.21 | 9083 | 0.00 | 134.70 | 10914 | 0.00 | 1108.44 | 10991 | 0.01 | 339.65 | 1748.86 |
| 11/18/2013 | 8372 | 0.00 | 49.15 | 8372 | 0.00 | 117.30 | 10081 | 0.00 | 136.08 | 11992 | 0.00 | 1110.90 | 12069 | 0.02 | 356.69 | 1770.12 |
| Pulse -off period November 18, 2013 to January 15, 2014 | | | | | | | | | | | | | | | | |
| 1/15/2014 | 8651 | 0.00 | 49.36 | 8651 | 0.00 | 117.51 | 10916 | 0.00 | 136.88 | 11997 | 0.00 | 1110.91 | 12074 | 0.01 | 356.73 | 1771.39 |
| 3/14/2014 | 8894 | 0.00 | 49.48 | 8894 | 0.00 | 117.52 | 11645 | 0.00 | 137.13 | 12980 | 0.00 | 1112.65 | 13057 | 0.01 | 368.96 | 1785.75 |
| Pulse -off period March 14, 2014 to May 15, 2014 | | | | | | | | | | | | | | | | |
| 5/15/2014 | 8990 | 0.00 | 49.54 | 8990 | 0.00 | 117.64 | 11934 | 0.00 | 137.98 | 12986 | 0.00 | 1112.67 | 13063 | 0.01 | 369.01 | 1786.83 |
| 7/23/2014 | 9321 | 0.00 | 50.01 | 9321 | 0.00 | 117.79 | 12926 | 0.00 | 138.52 | 14627 | 0.00 | 1113.02 | 14714 | 0.00 | 371.61 | 1790.95 |
| Pulse -off period July 23, 2014 to September 16, 2014 | | | | | | | | | | | | | | | | |
| 9/16/2014 | 9494 | 0.00 | 50.32 | 9494 | 0.00 | 118.05 | 13099 | 0.00 | 138.77 | 14628 | 0.00 | 1113.03 | 14715 | 0.00 | 371.61 | 1791.78 |
| 11/14/2014 | 9777 | 0.00 | 50.45 | 9777 | 0.00 | 118.12 | 13948 | 0.00 | 139.44 | 16008 | 0.00 | 1116.04 | 16095 | 0.00 | 377.77 | 1801.82 |
| Pulse -off period November 14, 2014 to January 9, 2015 | | | | | | | | | | | | | | | | |
| 1/9/2015 | 9778 | 0.00 | 50.45 | 9778 | 0.00 | 118.12 | 13949 | 0.00 | 139.44 | 16015 | 0.00 | 1116.05 | 16102 | 0.00 | 377.78 | 1801.84 |
| 3/13/2015 | 10045 | 0.00 | 50.56 | 10045 | 0.00 | 118.15 | 14750 | 0.00 | 140.07 | 17178 | 0.00 | 1117.32 | 17322 | 0.00 | 382.64 | 1808.74 |
| Pulse -off period March 13, 2015 to May 15, 2015 | | | | | | | | | | | | | | | | |
| 5/15/2015 | 10046 | 0.00 | 50.56 | 10046 | 0.00 | 118.15 | 14751 | 0.00 | 140.07 | 17186 | 0.00 | 1117.34 | 17329 | 0.00 | 382.66 | 1808.77 |
| 7/16/2015 | 10343 | 0.00 | 50.92 | 10343 | 0.00 | 118.25 | 15641 | 0.00 | 140.72 | 18436 | 0.00 | 1121.16 | 18578 | 0.00 | 384.37 | 1815.42 |
| Pulse -off period July 16, 2015 to September 22, 2015 | | | | | | | | | | | | | | | | |
| 9/22/2015 | 10343 | 0.00 | 50.92 | 10343 | 0.00 | 118.26 | 15641 | 0.00 | 140.72 | 18439 | 0.00 | 1121.16 | 18580 | 0.00 | 384.37 | 1815.43 |
| 11/20/2015 | 10626 | 0.00 | 51.03 | 10626 | 0.00 | 118.33 | 15924 | 0.00 | 140.81 | 19832 | 0.00 | 1126.63 | 19973 | 0.00 | 387.19 | 1823.99 |
| Pulse -off period November 20, 2015 to January 19, 2016 | | | | | | | | | | | | | | | | |
| 1/19/2016 | 10627 | 0.00 | 51.03 | 10627 | 0.00 | 118.33 | 15925 | 0.00 | 140.81 | 19841 | 0.00 | 1126.63 | 19982 | 0.00 | 387.20 | 1824.00 |
| 3/18/2016 | 10883 | 0.00 | 51.14 | 10883 | 0.00 | 118.36 | 16181 | 0.00 | 140.88 | 21088 | 0.00 | 1128.65 | 21229 | 0.00 | 389.97 | 1829.00 |

FIGURES

Figures



| Facility Location Map | | | FIGURE NUMBER |
|---|----------|-----------------|---------------|
| Area 9/10 Remedial Action Southeast Rockford Groundwater Contamination Superfund Site Rockford, IL | | | |
| DRAWN BY: | DATE: | PROJECT NUMBER: | SHEET NUMBER: |
| JG | 04/20/16 | 60480283.4212 | 1 of 1 |

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